



**Faculty of Business Administration**

Office of the Dean  
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**August 5, 2019**

**Prof. Dr. Vikram Athalye**  
**Associate Professor**  
**Head Dept. of Physics and Dean**  
**Cummins College of Engineering**  
**Pune, India**

**Dear Dr. Athalye,**

**On the recommendation of Dr. Emmanuel Haven, I am pleased to invite you to the Faculty of Business Administration at Memorial University as a visiting researcher for the period November 11- 15, 2019 discussing research as well as exploring ideas to identify synergies between Cummins College and our department.**

**Dr. Haven will pay for your economy airfare and 7 nights' accommodations from his start up funds. No salary nor stipend will be paid for this visit.**

**This appointment is not subject to the collective agreement between the University and the Faculty Association and does not cover medical insurance. We suggest you purchase personal medical insurance before travelling to, or upon arrival in Canada. Space and research facilities will be available to you to support your research. Dr. Haven will be glad to answer any queries you may have about our research facilities.**

**This offer is subject to compliance with the immigration laws of Canada and is conditional on any approvals, authorizations and/or permits required under the Immigration and Refugee Protection Act and in the regulations made pursuant to that Act. If you have any questions regarding immigration requirements, please contact the Office of Faculty Relations directly at 709-864-4732.**

**We look forward to having you with us and trust you will enjoy your associations with Memorial University and the Faculty of Business Administration.**

**Sincerely,**

A handwritten signature in blue ink, appearing to read "Isabelle Dostaler".

**Isabelle Dostaler, PhD**  
**Dean**

**Cc: Dr. I. Dostaler, Dean**  
**Ms. S. Gardiner, Senior Administrative Officer**  
**Ms. T. Kielly, Faculty Relations**  
**Dr. Emmanuel Haven, Faculty of Business Administration**

**ACADEMIC AUTHOR AGREEMENT**

(the 'Agreement')

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EFFECTIVE DATE: 14 May 2020 | 6:21 PM BST (the 'Effective Date')

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Cambridge University Press  
University Printing House  
Shaftesbury Road  
Cambridge CB2 8BS  
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( 'Cambridge' )

AND:

2 Dr. Vikram Athalye  
Department of Physics  
Cummins College of Engineering for Women  
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India  
Email: vikram.athalye@cumminscollge.in

Dr. Emmanuel Haven  
Faculty of Business Administration  
Memorial University  
230 Elizabeth Ave  
St. John's  
NL A1C 5S7  
Canada  
Email: ehaven@mun.ca

(individually and/or collectively, the 'Author')  
(each a 'Party' and, together, the 'Parties')

FOR: a work provisionally entitled:

**Quantum Models for Economics and Finance** (the 'Work')

Cambridge and the Author hereby accept and agree to the terms of this Agreement, which incorporates the following attached Sections:

SECTION I: Specific terms and conditions

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SIGNED: Phil Meyler

for and on behalf of the Chancellor, Masters, and Scholars of the University of Cambridge acting through its department, Cambridge University Press

SIGNED: V.S. Athalye

Dr. Vikram Athalye

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Dr. Emmanuel Haven

## Journal of Engineering Education Transformations

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Year: 2020, Volume: 33, Issue: Special 1, Pages: 1-8

### Original Article

## Improving Program Outcome Attainments using Project Based Learning approach for: UG Course-Mechatronics

Abhishek D. Patange 1\*, A. K. Bewoor 2, S. P. Deshmukh 3, S. S. Mulik 4, S. S. Pardeshi 1, R. Jegadeeshwaran 5

1. Assistant Professor, Mechanical Engineering Department, College of Engineering, Pune, India

2. Professor, Mechanical Engineering Department, Cummins College of Engineering for Women, Pune, India

3. Associate Professor, Mechanical Engineering Department, Govt. College of Engineering, Karad, India

4. Associate Professor, Mechanical Engineering Department, R.M.D. Sinhgad School of Engineering, Pune, India

5. Associate Professor, School of Mechanical and Building Sciences, VIT University, Chennai, India



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### ABSTRACT


In the era of rapidly emerging technical society, engineering aspirants must be primed as globally competent. To respond, in recent years, inclusive reforms are being implemented to adopt Outcome-Based Education (OBE) approach and transform engineering education in India. The 12 Program Outcomes (POs) defined by NBA guides for development, execution and delivery of curriculum, evaluation of student learning and performance at various levels. The scope of mechatronics subject at colleges affiliated to Savitribai Phule Pune University (SPPU) in 2015 course was mostly restricted to theoretical and study approach, which do not exhibit involvement of students in creative, inventive and innovative thinking. This motivates to adopt Project Based Learning (PBL) at undergraduate level. Three large classes of 70+ students are grouped in to 3-5 students per batch. Project phases are defined; direct and indirect assessments are mapped with outcomes and it is carried out using pre- and post-intervention survey of students. It is observed that, the presented PBL framework has served as an efficient pedagogy. This approach not only ensured holistic development, teamwork, sustainability, improved higher-order cognitive skills, learning ability, soft skills, self-efficacy and communication but also accumulated near about 60 innovative prototypes in a mechatronics laboratory. It is projected that, PBL could enable students to acquire lifelong learning to tackle new difficulties arise in corporate/non-corporate life, thinking on future modification, filing a patent, converting prototype into commercial product.

### REFERENCES

1. Recommendations For Examination Reforms, All India Council For Technical Education, Nelson Mandela Marg, Vasant Kunj New Delhi - 110 070 (2018) [https://www.aicte-india.org/flipbook/exam\\_reform/index.html#p=1](https://www.aicte-india.org/flipbook/exam_reform/index.html#p=1)
2. Dr. Satya Pal Singh, Minister Of State (HRD), AICTE, Outcome Based, Socially And Industrially Relevant Model Curriculum In Engineering And Technical Subjects, Press Information Bureau, Government Of India, Ministry Of Human Resource Development, (2019) <https://pib.gov.in/newsite/PrintRelease.aspx?relid=187146>
3. Accreditation-Evaluator's View, Program Outcomes By National Board Of Accreditation, <https://www.nbaind.org/files/Peos-Curriculum-And-Co-Po-Mapping-14-May-2016.pdf>

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PDF 171

 Abstract

 Full-Text PDF



Year: 2020, Volume: 33, Issue: Special 1





Research paper

# Markov-based performance evaluation and availability optimization of the boiler–furnace system in coal-fired thermal power plant using PSO

Hanumant Jagtap <sup>a</sup> ✉, Anand Bewoor <sup>b</sup> ✉, Ravinder Kumar <sup>c</sup> ✉, Mohammad Hossein Ahmadi <sup>d</sup> ✉, Giulio Lorenzini <sup>e</sup> ✉<sup>a</sup> Zeal College of Engineering & Research, Narhe, SavitribaiPhule Pune University, Pune, 411041, Maharashtra, India<sup>b</sup> Mechanical Engineering Department, Cummins College of Engineering for Women, Pune, 411052, Maharashtra, India<sup>c</sup> School of Mechanical Engineering, Lovely Professional University, Phagwara 144411, Punjab, India<sup>d</sup> Faculty of Mechanical Engineering, Shahrood University of Technology, Shahrood, Iran<sup>e</sup> Department of Engineering and Architecture, University of Parma, Parma 43124, Italy

Received 11 September 2019, Revised 29 March 2020, Accepted 19 April 2020, Available online 5 May 2020, Version of Record 5 May 2020.



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## Highlights

- We present performance evaluation of boiler–furnace system used in thermal power plant.
- Markov based availability simulation model is developed for different operating states of the subsystems.
- An effect of failure rate and repair rate on overall system availability is investigated.
- The system availability is optimized using particle swarm optimization method.
- The study proposes the maintenance guidelines to be adopted for improving the availability of the plant.

## Abstract

The appropriate maintenance strategy is essential for maintaining the thermal power plant highly reliable. The thermal power plant is a complex system that consists of various subsystems connected either in series or parallel configuration. The boiler–furnace (BF) system is one of the most critical subsystems of the thermal power plant. This paper presents availability based simulation modeling of the boiler–furnace system of thermal power plant with capacity (500MW). The Markov based simulation model of the system is developed for performance analysis. The differential equations are derived from a transition diagram representing various states with full working capacity, reduced capacity, and failed state. The normalizing condition is used for solving the differential equations. Furthermore, the performance of the system is analyzed for a possible combination of failure rate and repair rate, which revealed that failure of the boiler drum affects the system availability at most, and the failure of reheater affects the availability at least. Based on the criticality ranking, the maintenance priority has been provided for the system.

## Thermal Power Plant Condenser Fault Diagnosis Using Coordinated Condition Monitoring Approach

Hanumant Pandurang Jagtap<sup>1</sup>, Anand Bewoor<sup>2</sup>, Ravinder Kumar<sup>3\*</sup>

<sup>1</sup> Zeal College of Engineering and Research, Narhe, Pune, India

<sup>2</sup> Mechanical Engineering Department, Cummins College of Engineering for Women, Pune, India

<sup>3</sup> School of Mechanical Engineering, Lovely Professional University, Phagwara, Punjab, India

Corresponding Author Email: [rav.chauhan@yahoo.co.in](mailto:rav.chauhan@yahoo.co.in)

<https://doi.org/10.18280/i2m.180301>

### ABSTRACT

**Received:** 19 March 2019

**Accepted:** 20 May 2019

#### Keywords:

*reliability analysis, preventive maintenance, vibration analysis, noise measurement, ultrasound*

The purpose of this study is the fault diagnosis of the cooling water pump of the condenser system used in thermal power plant using coordinated condition monitoring approach. The approach is based on integrating condition monitoring techniques, viz., vibration analysis, noise analysis, and ultrasound analysis. The failure data and repair data of condenser system are collected and analyzed for reliability analysis. The reliability-based preventive maintenance time intervals are determined at different levels, such as at 90 %, 75 %, and 50 %. In addition, K-S goodness of fit test is carried out, and the best-fit distribution reliability parameters have been obtained. Such determined reliability-based time interval is counted to plan, not only maintaining/repairing work but also for replacement of the component/equipment. A case study showing reliability improvement of the condenser is reported in the present study. Through this study, the fault of the cooling water pump of the condenser system is diagnosed using coordinated condition monitoring approach. It was found that the bearing of the cooling water pump was damaged. The pump bearing was replaced during the maintenance work. The performance of the cooling water pump was analyzed and found in a normal state. It is concluded that coordinated condition monitoring approach improves the accuracy of fault detection and diagnosis.

## 1. INTRODUCTION

The increasing need for electricity has brought about the importance of maintaining power generating resources on a higher priority in India. Among the various resources, the thermal power plant is the primary resource of electricity generation. It is essential to maintain the thermal power plant continuously in an operating state. Unfortunately, this is not the case because the failure of equipment is inevitable even though it can be minimized by implementing suitable maintenance strategy. Garg [1] presented a methodology for analyzing the performance of industrial systems using uncertain data. The reliability, availability, and maintenance of thermal power plant have become more significant in recent years due to the growing demand for electricity from society. The optimum reliability and availability level are desirable not only to reduce the overall cost of production but also to reduce the risk of hazards [2]. The basic reliability and operational reliability are forecasted on the basis of the forecasted value of per unit contained in the model [3]. However, with thoughtful consideration for reliability, availability, and maintainability, the frequency of failures and similar consequences can be reduced considerably. Eti et al. [4] claimed that, if the attention is given during maintenance planning regarding the maintenance needs of the system, considerable savings are achieved in operational processes.

As, the thermal power plant is a complex system consisting of various subsystems connected either in series, parallel, or mixed configuration. Failure of any subsystem may cause its

unavailability, which will affect the performance of the system/unit/plant. Kumar et al. [5] developed the availability simulation model for power generation system of the thermal power plant and investigated the performance of the system under realistic working conditions. Dev et al. [6] stated that criticality level decides the importance of the system as well as a choice of appropriate maintenance and repair strategy so that the reliability and availability may be maintained up to the mark. According to Carazas et al. [7], reliability can be at least estimated during the plant design stages because its availability is strongly influenced by major factors such as the ability to diagnose the cause of the failure or the availability of equipment and skilled personnel to carry out the repair procedure.

The several approaches/tools have been used by earlier researchers to evaluate the reliability and availability parameters. Garg et al. [8] solved reliability redundancy allocation problem for non-linear source constraints. In their study, the artificial bee colony is developed, and further, the solutions are obtained with improvements. In addition, Garg [9] extended their study for obtaining the optimal solution of reliability redundancy allocation problem by using penalty based cuckoo search with non-linear constraints. Kumar et al. [10] classified the major systems of the thermal power plant into five different categories viz. boiler (boiler furnace and steam drum), boiler air circulation system, water circulation system, coal supply system and power generating system (steam turbine and a generator unit). In case of such condenser subsystem, condensate leaving the condenser is supply to the



**Proceedings of 3rd International Conference on Computer Vision and Image Processing** pp 403–421

## Human Head Pose and Eye State Based Driver Distraction Monitoring System

[Astha Modak](#) , [Samruddhi Paradkar](#), [Shruti Manwatkar](#), [Amol R. Madane](#)  
& [Ashwini M. Deshpande](#)

Conference paper | [First Online: 01 November 2019](#)

**657** Accesses | **2** Citations

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1022)

### Abstract

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One of the major causes of road accidents is driver distraction. Driver distraction is diversion of attention away from activities critical for safe driving. Driver distraction can be categorized into drowsiness and inattentiveness. Drowsiness is a condition in which the driver feels sleepy, therefore cannot pay attention toward road. Inattentiveness is diversion of driver's attention away from the road. Our system provides facility for monitoring driver's activities continuously. The in-car camera is mounted to capture live video of driver. Viola–Jones algorithm is used to identify the driver's non-front-facing frames from video. Inattentiveness is detected if the system identifies consecutive frames having non-frontal face. Drowsiness is identified by continuous monitoring of the eye status, which is either "open" or "closed" using horizontal mean intensity plot of eye region. Once the system detects the distraction, alert is generated in the form of audio. This will reduce the risk of falling asleep in long distance traveling during day and night time.

### Keywords

**Driver distraction**    **Drowsiness**    **Eye state inattentiveness**



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Fax : +(91) (253) 236 1133.

### Silica Research Project – 2019-20

This is to certify that Prof. Dr. Malini Bapat of Cummins College of Engineering, Pune, worked as the Principal Investigator on the project entitled, "Extraction of silica from rice husk". A grant of Rs 1,56,874 was granted for the Project by Swaroop Agrochemical Industries, MIDC, Nashik as follows:

Sr. No.	Details	Amount (Rs.)
1	Chemicals and glassware	11502
2	Research stipend to fellow	1,35,000
3	Characterization studies	10,372
4	<b>Grand Total</b>	<b>1,56,874</b>

This project involves development of an eco-friendly process to recover silica from waste rice plant materials for application as Si formulation for soil supplementation. Dr. Vinod Nandre worked as the research associate on this project under her guidance from Jan 2019 to Jan 2020. We look forward to launching the product in market after completion of suitable optimisations related to the study.

Swaroop Agrochemical Industries

  
Authorized Signatory





Deepti Gnanaseelan  
C-26, Whispering Wind  
Pashan Baner Link Road  
Pune, Maharashtra 411021  
India

Dear Deepti,

Congratulations! This letter serves as your official notification of admission to the Graduate School of Purdue University. I am delighted to welcome you to a community of more than 10,000 graduate students on our five campuses who come to us from every state in the Union and from more than 120 countries.

The information contained within the admission information sheet of this letter is essential to your enrollment. Careful reading of this material will make your transition to the Graduate School as smooth as possible. If you are unable to register for the session specified on the second page, please notify the graduate office of your academic program as soon as possible. Your academic program's graduate office also will be able to answer specific questions you may have concerning your admission and funding.

You already know the strengths of Purdue's graduate programs. I hope that you will come to regard the Graduate School as your second academic home during your time at Purdue University. The Graduate School has developed special programs for its students and is committed to the professional development of all Purdue graduate students. Our goal is to enhance the quality of graduate student life. The Graduate School Web site at [www.purdue.edu/gradschool](http://www.purdue.edu/gradschool) is your source for detailed information about our programs, graduate student government and organizations, and the community.

We hope that you choose Purdue [<https://www.purdue.edu/gradschool/advancetopurdue/>](https://www.purdue.edu/gradschool/advancetopurdue/) and join us to make what moves the world forward!

Click here [<https://gradapply.purdue.edu/apply/form?id=5327be2d-1128-4544-9696-acb76415f2a3>](https://gradapply.purdue.edu/apply/form?id=5327be2d-1128-4544-9696-acb76415f2a3) to submit your response to the offer of admission.

With best wishes for success at Purdue,

Dr. Linda Mason  
Interim Dean Graduate School  
Sr. Associate Dean Graduate School and Professor of Entomology  
Graduate School Young Hall 170, Purdue University





## Admission Information Sheet for Deepti Gnanaseelan

PUID: 0030841818

Campus: West Lafayette (Main Campus)

Graduate Major: Mechanical Engineering

Course Delivery: On-Campus

Degree Objective: MS in Mechanical Engineering (MSME)

Term/Year: Fall 2018

Academic Advisor: Prof. Terry Meyer

### Residence Classification for Tuition Purposes:

Non Resident

### Condition(s) of Continued Enrollment

You must satisfactorily complete your undergraduate degree and submit to the Graduate School office (Young Hall, Room 170) your final official undergraduate transcript. This condition must be satisfied before you will be permitted to register for sessions beyond your first session.

You must submit to the Graduate School office (Young Hall, Room 170) your original official undergraduate diploma for verification. This condition must be satisfied before you will be permitted to register for sessions beyond your first session. If your undergraduate institution will not confer your degree until a future date, please obtain (and submit to the Graduate School office) a signed letter from your undergraduate institution that identifies when your degree will be awarded.

### General Information

All faculty, staff and students have a career account. Your career account will give you electronic access to your @purdue.edu email account and other electronic services. This account is yours to use for as long as you are affiliated with Purdue University. You will need your PUID, which is provided in this letter, and your Purdue career account set-up password. The career account set-up password will be sent in a separate email to you within five business days of viewing your admission letter. Please access <https://www.purdue.edu/apps/account/AccountSetup> with this information to activate your account. If you have already activated your Purdue career account, please disregard this message.

What is myPurdue? [www.mypurdue.purdue.edu](http://www.mypurdue.purdue.edu) is the portal system where you can access your academic and financial account information. You will need your career account login and password to log in to myPurdue. Some of the benefits of myPurdue include:

- Online course registration in real time
- Online credit card payment for tuition



-Access to your financial aid information

-Access to review and update your personal information such as emergency contacts, mailing address, email, ethnicity & race, and gender identity

**US Immigration Document:** In order for the Office of International Students and Scholars (ISS) to issue you a US immigration document (I-20 or DS-2019), admitted international graduate students to Purdue University are required to complete the online NOTIFICATION OF INTENT (NOI), at the following link:<https://connect.iss.purdue.edu>. You must also attach scanned images of your official financial support documents, and you and your dependent's (if any) passport before an immigration document will be prepared and mailed.

In the section labeled "Full client Services for Students & Scholars", please click the blue Login button. Use your Purdue career account information to log in to myISS. On the left side of the myISS home page, click on Pre-Arrival, then click on Notification of Intent. You must complete all mandatory sections of the Notification of Intent, before we can begin to issue an I-20 or DS2019 for you. If you currently hold F-1 or J-1 status and are transferring to Purdue University from another US Institution, please also complete the SEVIS Transfer In Request.

**International Students Interested in Graduate Teaching Assistantships:** Before you may be considered for employment as a Purdue University graduate teaching assistant, you must receive certification for oral proficiency in English. Please note that any waiver of the TOEFL or IELTS (related to Graduate School admission) does not exempt students from the requirement to demonstrate proficiency in spoken English in order to be considered for a graduate teaching assistantship. Most graduate students are certified by taking Purdue's Oral Proficiency Test (the OEPT). Information about oral English certification for international students and access to the OEPT Practice Test is provided at the OEPT Orientation website: <http://tutorial.ace-in-testing.com/Default.aspx?p=videos>. Make sure you have prepared for English language testing by taking the OEPT practice test, and if you have any questions about your department's English language certification requirements for international teaching assistants, please contact your department.

**Important Tax Information for International Students:** Each year, international students who receive any income originating from the United States are required to file a United States income tax return (Internal Revenue Tax Form 1040NR). International students pay tax on all income earned in the United States at the same rate as United States citizens. If there is a tax treaty between your home country and the United States, you may not be required to pay income taxes on a portion of your income.

**Campus and Community Information:** For information about Purdue University housing, and the Greater Lafayette community, visit [www.purdue.edu/gradschool/admitted/relocation/](http://www.purdue.edu/gradschool/admitted/relocation/).

**Student Health Center:** Completion of a medical history form and health insurance coverage is required. Links to the medical history form and additional health insurance information may be found at the Purdue University Student Health Center website: <http://www.purdue.edu/PUSH/>.

**Housing:** Purdue University Residences has housing for single graduate students in 1 person one bedroom



apartments and 2 person two bedroom apartments. The space is furnished with bed, desk, and dresser for each student, and includes a kitchen with refrigerator and stove. Unfurnished one and two bedroom apartments are also available for married students or students with families. For more information, please contact the University Residences Directors' Office at [ghapp@purdue.edu](mailto:ghapp@purdue.edu). <<mailto:ghapp@purdue.edu>>

**Disability Services:** If you need accommodations, auxiliary aids, or services because of permanent or temporary disabilities, please contact the Disability Resource Center, Office of the Dean of Students, Young Hall, Room 830, 155 S. Grant Street, West Lafayette, IN 47907. Telephone: 765-494-1247 (Voice/TTY). Web site: [www.purdue.edu/drc/](http://www.purdue.edu/drc/)

**Orientation for New Graduate Students:** You are invited to attend a orientation for new graduate students on Friday, August 17, 2018, beginning at 9:00 a.m. in Stewart Center's Loeb Playhouse. Your graduate program may also have an orientation or a required arrival date. If you have any questions, please contact your program prior to planning your arrival.

Any questions or required materials can be submitted to:  
Purdue University Graduate School  
Office of Graduate Admissions  
Young Hall Room 170  
155 South Grant Street  
West Lafayette, IN 47907



Radhika Bhopatkar  
Flat No.12,894,Vyankatesh Apts., F.C, Road,  
Deccan Gymkhana,Pune-4  
Pune, Maharashtra 411004  
India

Dear Radhika,

Congratulations! This letter serves as your official notification of admission to the Graduate School of Purdue University. I am delighted to welcome you to a community of more than 10,000 graduate students on our five campuses who come to us from every state in the Union and from more than 120 countries.

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Click here [<https://gradapply.purdue.edu/apply/form?id=5327be2d-1128-4544-9696-acb76415f2a3>](https://gradapply.purdue.edu/apply/form?id=5327be2d-1128-4544-9696-acb76415f2a3) to submit your response to the offer of admission.

With best wishes for success at Purdue,

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Graduate School Young Hall 170, Purdue University



## Admission Information Sheet for Radhika Bhopatkar

PUID: 0030842409

Campus: West Lafayette (Main Campus)

Graduate Major: Mechanical Engineering

Course Delivery: On-Campus

Degree Objective: MS in Mechanical Engineering (MSME)

Term/Year: Fall 2018

Academic Advisor: Prof. Jay Gore

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**International Students Interested in Graduate Teaching Assistantships:** Before you may be considered for employment as a Purdue University graduate teaching assistant, you must receive certification for oral proficiency in English. Please note that any waiver of the TOEFL or IELTS (related to Graduate School admission) does not exempt students from the requirement to demonstrate proficiency in spoken English in order to be considered for a graduate teaching assistantship. Most graduate students are certified by taking Purdue's Oral Proficiency Test (the OEPT). Information about oral English certification for international students and access to the OEPT Practice Test is provided at the OEPT Orientation website: <http://tutorial.ace-in-testing.com/Default.aspx?p=videos>. Make sure you have prepared for English language testing by taking the OEPT practice test, and if you have any questions about your department's English language certification requirements for international teaching assistants, please contact your department.

**Important Tax Information for International Students:** Each year, international students who receive any income originating from the United States are required to file a United States income tax return (Internal Revenue Tax Form 1040NR). International students pay tax on all income earned in the United States at the same rate as United States citizens. If there is a tax treaty between your home country and the United States, you may not be required to pay income taxes on a portion of your income.

**Campus and Community Information:** For information about Purdue University housing, and the Greater Lafayette community, visit [www.purdue.edu/gradschool/admitted/relocation/](http://www.purdue.edu/gradschool/admitted/relocation/).

**Student Health Center:** Completion of a medical history form and health insurance coverage is required. Links to the medical history form and additional health insurance information may be found at the Purdue University Student Health Center website: <http://www.purdue.edu/PUSH/>.

**Housing:** Purdue University Residences has housing for single graduate students in 1 person one bedroom



apartments and 2 person two bedroom apartments. The space is furnished with bed, desk, and dresser for each student, and includes a kitchen with refrigerator and stove. Unfurnished one and two bedroom apartments are also available for married students or students with families. For more information, please contact the University Residences Directors' Office at [ghapp@purdue.edu](mailto:ghapp@purdue.edu). <<mailto:ghapp@purdue.edu>>

**Disability Services:** If you need accommodations, auxiliary aids, or services because of permanent or temporary disabilities, please contact the Disability Resource Center, Office of the Dean of Students, Young Hall, Room 830, 155 S. Grant Street, West Lafayette, IN 47907. Telephone: 765-494-1247 (Voice/TTY). Web site: [www.purdue.edu/drc/](http://www.purdue.edu/drc/)

**Orientation for New Graduate Students:** You are invited to attend a orientation for new graduate students on Friday, August 17, 2018, beginning at 9:00 a.m. in Stewart Center's Loeb Playhouse. Your graduate program may also have an orientation or a required arrival date. If you have any questions, please contact your program prior to planning your arrival.

Any questions or required materials can be submitted to:  
Purdue University Graduate School  
Office of Graduate Admissions  
Young Hall Room 170  
155 South Grant Street  
West Lafayette, IN 47907



# CENTRE FOR POLICE RESEARCH, PUNE

CHAVAN NAGAR, PASHAN ROAD, PUNE-411008.

TEL NO. : 020-25653696

FAX NO. : 020-25653696

E-MAIL : director.cprpu-mh@gov.in

WEBSITE : www.cprpune.org

O.W. No. / CPR/ 171 /2021/Pune

Date: 01/07/2021

## Consultancy Project Completion Certificate

To whomsoever it may concern

This is to certify that **Prof./ Dr. Bageshree Pathak** has successfully completed the consultancy project on "**Stress detection from speech**" during the period 2019-20 successfully for Center for Police Research, Pune.

All the required deliverables are successfully submitted by her.



**(Shirish Sardeshpande)**  
Superintendent of Police  
Centre for Police Research,  
Pune.





## *CENTRE FOR POLICE RESEARCH*

(SOCIETY REGD.NO.MAH/6753-92/PUNE) Public Trust Regd.No.F-7878/(Pune)

Address: Chavan Nagar, Pashan Road, Pune- 411 008 Tel: 020-25678978

EXECUTIVE DIRECTOR

SHRI. ATULCHANDRA KULKARNI

Add. D.G.P. CID, M.S. Pune Tel: 020-25668446

MEMBER SECRETARY

SHRI. PRAVIN SALUNKE

Spl. I.G.P., C.I.D., M.S. Pune.Tel:020-25668546

O.W. No. / CPR/ Research Approval/2019/Pune

Date: 06/11/2019

To,

Dr. Shubhangi Chaudhari, E & TC Department,  
Cummins College of Engineering for Women Pune. &  
Shri. Sangale, Reserve Police Inspector, Pune City

### **Sub: - Approval of Research Project.**

Dear Sir/Madam,

Thank you for your willingness for research study with CPR, Pune and submission of research application. It gives us pleasure to inform you that your research proposal has been approved. The CPR, Pune has deemed that your study can proceed.

Kindly submit a synopsis of research study as early as possible.

You are reminded that:

1. Your approval to conduct this research will expire after six months of approval date.
2. You must apply for and be granted continued approval for this study before that date in order to be able to conduct your study in an uninterrupted manner.
3. All research must be conducted in accordance with this approved submission. Any modification to the study as approved must be reviewed and approved by CPR, Pune.
4. All Rights over the research finding are reserved by CPR & Researcher.
5. The Managing Director, CPR will have full rights to use the thesis submitted by the Research Fellow for academic / training purposes. Copyright of the thesis of Research Fellow vests with the CPR.
6. No part of the thesis in full or part will be made available by the Fellow to any individual or organization, whether private or public, in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval systems, without permission in writing from the Director, CPR.
7. Any violation of the Rules will entail refund of the entire Fellowship Grant by the Fellow.
8. The Decision of the Managing Director, CPR will be final in the case of any dispute.
9. All disputes shall be subjected to jurisdiction of Pune Courts.

Best Wishes,

**(Anand Bhoite)**

Supdt. of Police,

Centre for Police Research, Pune.

Copy to all Concern Persons .

## RESEARCH PROPOSAL

When preparing a research proposal, it is essential that the proposed area of research is clearly articulated. Consulting with a faculty member in the research area of interest is recommended, but not necessarily required. Liaising with an academic who specializes in your proposal topic will help to strengthen the overall direction of the research.

- Length of Proposal: This is a "brief" research proposal and should be between 2 and 3 pages long. For contextual purposes, in grad school, the length can range from 10 to 25 pages in length!
- The following outline may be used as a guide. You should consider each of the areas that will be relevant to your research.
- Format: 12 point, Times New Roman, Single Space.

### Working Research Title

An initial working title should be provided and should describe the content and direction of your project.

For example: A Study on Cyber Crime Committed Against Women in Pune City during the last five years, Automatic Number Plate Recognition.

### Abstract

Short 150 word description that describes the research proposal; a quick statement on goal, method and expected outcomes.

### Introduction

Give us a summary of the research, high level overview and purpose of research.

### Research Goal / Objective:

What do you want to know, prove, demonstrate, analyze, test, investigate or examine? List your project goals...for example...

- The goal of this research is to:
  - Illustrate a new methodology/architecture/product/invention that has never been built before
  - Determine the efficacy of your new method/architecture/product/invention
  - Creation of a research roadmap as it pertains to my new method/architecture/product/invention

### Background and/or Theories

What is already known or unknown? What past research are you building upon?

### Hypotheses (optional)

Depending on the nature of your research, hypothesis might not be stated up front. For example, if you choose a qualitative research method that leverages grounded theory, then a the "theory" is an emergent property at the END of your research (i.e., a theory is developed inductively not deductively when using grounded theory). However, if your method is Quantitative or Design Science oriented, then you should include verbiage upfront in your proposal that discusses what your hypothesis (or hypotheses will be).

### Methodology

What method will you use? What do you need? (specify any special equipment, software or material) Can you access necessary data or expertise? Do you require particular resources? Are there barriers or pitfalls? Does the project involve humans, animals or safety implications? Is travel or fieldwork required? If so, where to, how long and at what intervals?

### Timetable

Indicate the estimated timeframe for each stage considering literature surveys, data collection, production, modelling, review, analysis, testing, reporting milestones, and research submission date.

### Expected conclusions, implications or justifications

Why is it important? What do you expect it will deliver? What are the expected outcomes? Establish the importance of your project by highlighting its uniqueness/inventiveness and why it is worth pursuing. Highlight the benefits, positive expected outcomes or innovative applications of knowledge.

### Requirements from CPR, Pune

- Providing letters for visit and study their day to day activities
- Interview permissions
- Registered case studies data

### References

A references section is required.

## AP Energy Solutions

Shop no. 7, Shree Siddhivinayak Manasvi, Ambegaon BK, Pune 411 046  
Email: [apenergysolutions@apenergysolutions.com](mailto:apenergysolutions@apenergysolutions.com) Mob.: +919822018331

Dear Dr. Seema Rajput and Dr. Anita Jain

We are pleased to appoint you as a Consultant in our organization on the following terms and conditions.

1. Your consultancy period shall be for a period of Twenty four months, beginning from 1st August 2019, which can be extended further or terminated earlier with Two Month notice on either side, without assigning any reason.
2. You will be paid certain percentage (Will differ from project to project) of the Project Cost, successfully deployed with the client.
3. You will not (except in the normal course of the Company's business) publish any article or statement, deliver any lecture or broadcast or make any communication to the press, including magazine publication relating to the Company's products or to any matter with which the Company may be concerned, unless you have previously applied to and obtained the written permission from the Company.
4. You will be required to maintain utmost secrecy in respect of Project documents, commercial offer, design documents, Project cost & Estimation, Technology, Software packages license, company's policies, Company's patterns & Trade Mark.
5. Any of our technical or other important information which might come into your possession during the continuance of your assignment with us shall not be disclosed, divulged or made public by you even thereafter.
6. You will be responsible for safekeeping and return in good condition and order of all Company property, which may be in your use, custody or charge.

We welcome you to The AP Energy Solutions family and look forward to a fruitful collaboration.

If you accept the terms and conditions above mentioned, please sign the declaration in the duplicate and return to us. The original shall be retained by you.

With best wishes,  
For AP Energy Solutions  
Name: Prasanna Pardeshi  
Designation: CEO



I agree to accept consultancy on the terms and conditions above mentioned. The original of this letter is in my possession.

Place : Pune

Name: Dr. Seema Rajput

Date : 25<sup>th</sup> July, 2019

Sign: S.Rajput



## MicroEmbedded Technologies

B-503, Shreeji Paradise, Nagras Road, Aundh, Pune - 411 067.

Cell : 9371004724 | 98225 11516

Email : sales@microembedded.in | dipakghule@gmail.com www.microembedded.in

Date: 19<sup>th</sup> August 2019.

To,

Dr Ashwini M Deshpande

MKSS Cummins College of Engineering for Women,

Karve Nagar, Pune.

Hello Mam,

As per our discussion regarding the consultancy work for the Development of higher level programming modules on MicroDSP6748 Development Platform for Audio and Video processing algorithms/applications, and you having accepting the offer for the same, We Microembedded Technologies, would like to officially appoint you and Prof. Tejashree Pawar (Assistant Professor, E&TC Department) as our consultants for this project.

We will soon formalize the charges and agreement for the same.

Thanking You,

Ashish Bhole

MicroEmbedded Technologies.



एम सी उत्तम  
मानद संचालक  
आयएसआरओ(इस्रो)-सुओपी स्पेस टेक्नॉलॉजी सेल  
सावित्रीबाई फुले पुणे विद्यापीठ  
(पूर्वीचे पुणे विद्यापीठ)  
गणेशखिंड, पुणे - ४११००७  
दूरध्वनी क्र.: (०२०) २५६९५६६४, २५६९०७२२(D)  
विस्तारित क्र. : १४०७, २५६९७८८८(R)  
फॅक्स : (०२०) २५६९५६६४



M C Uttam  
Hon. Director  
ISRO-UoP SPACE TECHNOLOGY CELL  
SAVITRIBAI PHULE PUNE UNIVERSITY  
(formerly University of Pune)  
Ganeshkhind, Pune-411007  
Telefax No. : (020) 25695664, 25690722(D)  
Extn : 1407(O), 25897888 (R)  
Email : despun@physics.unipune.ac.in

Ref. No.: PU/ISRO-STC/1944

Date: 05/07/2018

**Sub:** Approval of the research proposal submitted to this Office and release of funds

Dear Dr Deshpande

The modified research proposal submitted by you vide your letter dated 30/11/2017 for funding under ISRO-UoP Joint Research Programme has been considered and approved as given below. The funds will be released year wise.

**Title of the Research Proposal** : Development of image quality improvement algorithms for satellite imagery/radiometric data (Project No. 180)

**Duration** : Two years

**Total Funds** : ₹ 8,70,000/-

Budget head	Amount (₹) I year	Amount (₹) II year	Total (₹)
Staff	2,70,000/-	2,70,000/-	5,40,000/-
Equipment & Supplies	1,40,000/-	50,000/-	1,90,000/-
Others: Contingency	25,000/-	15,000/-	40,000/-
Travel	50,000/-	50,000/-	1,00,000/-
<b>Total</b>	<b>4,85,000/-</b>	<b>3,85,000/-</b>	<b>8,70,000/-</b>

I shall be requesting the University Finance Department to release the funds to you on receipt of your acceptance. It is to be noted that the funds are utilized conforming to the ISRO and Savitribai Phule Pune University rules and regulations. You are also required to submit a progress report once in six months to this Office. Progress of the project will be periodically reviewed by Preliminary Evaluation Committee (PEC). Written approval from this Office may please be taken before making any publication. With a view to ensure the study progresses in the right direction, it is suggested to have action interaction with the ISRO/DOS Scientist/Engineers identified for the Project. At the end of the financial year, two copies of the audited and approved statement of Accounts need be submitted. After the completion of the research project, Final Technical Report (one hard copy & one soft copy) and Final Account Statement (in duplicate) are required to be submitted. The unspent funds at the end of the project, if any, will be transferred back to this Office.

With warm regards,

  
(M C Uttam)

To:

Dr (Mrs) Ashwini Deshpande  
Associate Professor  
Dept. of Electronics & Telecommunication Engineering  
Cummins College of Engineering for Women  
Karvenagar, Pune - 411052

Cc:

Director,  
Cummins College of Engineering for Women  
Karvenagar, Pune - 411052

Deutsche Bank Group  
DBOI Global Services



DBOI Global Services Pvt. Ltd.  
Business Bay, Wing 2  
Tower A, 6th, 7th, 8th floor  
Off Airport Road, Yerwada  
Pune - 411 006

CIN: U72900MH2005PTC158278

September 02, 2020

**SERVICE CERTIFICATE**

This is to certify that **Avanti Pophale** was employed with us from **June 01, 2020** to **June 26, 2020** as an **Intern** in the **Market Finance** Department of our Bank in **Pune**. Internship was successfully completed to enable her to develop her practical skills and provide industry exposure.

We wish **Avanti Pophale** all success in her future endeavors.

Yours faithfully,  
**DBOI Global Services Private Limited**

A handwritten signature in blue ink, appearing to be 'Avanti Pophale', with a horizontal line underneath.

A handwritten signature in blue ink, appearing to be 'Avanti Pophale', with a horizontal line underneath.

# CERTIFICATE *of* ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Bhargavi Mahajan**

Student of **Cummins College of Engineering for Women, Pune** has successfully completed her **Digital Marketing Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **29th April, 2020 to 30th June, 2020.**

During the course of the internship, **Ms. Bhargavi** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled all the responsibilities of the digital marketing assignment sincerely.

In particular, her coordination and digital marketing skills are par excellence!

We wish her all the very best for the future!



  
Authorized Signatory

[www.minnanoconsultancy.com](http://www.minnanoconsultancy.com)



# Internship Certificate



Solarpura Hallmark,  
Ground Floor, A-Block,  
Survey No. 15/3 and 15/5  
Kadabesanahalli,  
Outer Ring Road  
Bangalore-560103

Solarpura Touchstone,  
3<sup>rd</sup> Floor, Block B,  
15/1A, 14/7,  
Kadabesanahalli,  
Outer Ring Road  
Bangalore-560103

Date : 19-Aug-2020

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Deeksha Satyendra Gupta student of Cummins, Pune, has successfully completed the internship program from 02-Jun-2020 to 14 Aug 2020 with us under the guidance of B S Prabhakar, Senior Director I, Software Engineering.

We wish all the success in pursuit of her academic achievements and professional career.

for WM Global Technology Services India Pvt. Ltd.,

A handwritten signature in black ink that reads "Akash Gupta". The signature is written in a cursive style.

**Akash Gupta**

**Director, Total Rewards & HR Operations**

**WM Global Technology Services India Private Limited**

Regd. Office 3<sup>rd</sup> Floor, Block B, Solarpura Touchstone, 15/1A, 14/7, Kadabesanahalli, Outer Ring Road, Bangalore - 560103  
Phone 01-80-42250008, Fax 01-80-42250000  
www.walmart.com  
CIN-UT2200KA2011PTC059719

# Certificate of Participation

Presented to

**MAHIMA VISHNU MULE**

---

For successfully completing Project Parth held from June to September 2020,  
conducted by HSBC Technology India (HTI) ITID colleagues,  
as part of its corporate sustainability efforts for Katalyst India.



A handwritten signature in blue ink, appearing to read "Girish Bidani".

**Girish Bidani**  
Centre Head Pune,  
HSBC Technology India

# CERTIFICATE *of* ACHIEVEMENT



THIS ACKNOWLEDGES THAT

---

## Ms. Minal Manoj Sadani

---

Student of **Cummins College of Engineering for Women, Pune**, has successfully completed her **Web Development Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **18th April, 2020 to 20th June, 2020.**

During the course of the internship, **Ms. Minal** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled the responsibilities of the web development in **React JS** and **Firestore** sincerely.

In particular, her coordination and front-end development skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory

[www.minnanoconsultancy.com](http://www.minnanoconsultancy.com)



**To whomsoever it may concern**

This is to certify that **Namita Santosh Mutha** of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	CSAT Customer Comments Text Classification
Duration	5/26/2020 – 7/24/2020
Location	Hyderabad
Reporting Manager Name	Abhishek Gali
Guide Name	Sharat Reddy
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking

You,

Regards,

**Savneet Shergill**  
**Senior Director Talent**  
**Acquisition Dell**  
**Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030

# Certificate of Participation

Presented to

**NEHA NANDAKISHOR ZADE**

---

For successfully completing Project Parth held from June to September 2020,  
conducted by HSBC Technology India (HTI) ITID colleagues,  
as part of its corporate sustainability efforts for Katalyst India.



**Girish Bidani**  
Centre Head Pune,  
HSBC Technology India



26 November 2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Prachi Mate, a student of B. Tech. (Information Technology), MKSSS's Cummins College of Engineering for Women, Pune has successfully completed an internship program at AlgoAsylum from 26 August 2019 to 22 November 2020. During this period of her internship program, her performance was found to be satisfactory.

We wish her success in all her future endeavors

Sincerely,

*Shrirang Karandikar*

Shrirang K. Karandikar,

Founder and CEO,

AlgoAsylum



**To whomsoever it may concern**

This is to certify that Pranjali Ramesh Barve of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	ML POC - Green-plum Incident Category Impacting 4DX Score
Duration	5/26/2020 – 7/24/2020
Location	Hyderabad
Reporting Manager Name	Craig Van Der Bogart
Guide Name	Shashank Garg
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030

# Certificate of Participation

Presented to

**PRATIKSHA GOPAL BHAWAR**

For successfully completing Project Parth held from June to September 2020,  
conducted by HSBC Technology India (HTI) ITID colleagues,  
as part of its corporate sustainability efforts for Katalyst India.



A handwritten signature in blue ink, appearing to read "Girish Bidani".

**Girish Bidani**  
Centre Head Pune,  
HSBC Technology India



# INTERNSHIP CERTIFICATE

## CERTIFICATE *of* ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Revati Pawar**

Student of **Cummins College of Engineering for Women, Pune** has successfully completed her **Digital Marketing Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **17th April, 2020 to 20th June, 2020.**

During the course of the internship, **Ms. Revati** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled all the responsibilities of the digital marketing assignment sincerely.

In particular, her coordination and digital marketing skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory

[www.minnanoconsultancy.com](http://www.minnanoconsultancy.com)

## Internship certificate by the Company

# Certificate of Completion

This certificate is awarded to

**Rucha Tatawar**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

July 2020

# CERTIFICATE *of* ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Ruchika Navandar**

Student of **Cummins College of Engineering for Women, Pune**, has successfully completed her **Web Development Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **17th April, 2020 to 20th June, 2020**.

During the course of the internship, **Ms. Ruchika** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled the responsibilities of the web development in **React JS** and **Firestore** sincerely.

In particular, her coordination and database skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory

[www.minnanoconsultancy.com](http://www.minnanoconsultancy.com)

Salarpuria Hallmark,  
Ground Floor, A-Block  
Survey No. 15/3 and 16/5  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

Salarpuria Touchstone,  
3<sup>rd</sup> Floor, Block B,  
15/1A, 14P7,  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103


**Date : 07-Sep-2020**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Ms. Sayee Mulkalwar** student of **Cummins, Pune**, has successfully completed the internship program from **02-Jun-2020** to **07 Aug 2020** with us under the guidance of **Prithvi Ranganath, Senior Manager II, Software Engineering**.

We wish all the success in pursuit of her academic achievements and professional career.

for **WM Global Technology Services India Pvt. Ltd.,**



**Akash Gupta**

**Director, Total Rewards & HR Operations**

**WM Global Technology Services India Private Limited**

Regd. Office: 3<sup>rd</sup> Floor, Block B, Salarpuria Touchstone, 15/1A, 14P7, Kadubeesanahalli, Outer Ring Road, Bangalore - 560103  
Phone 91.80.40358008, Fax 91.80.40358000  
www.walmart.com  
CIN-U72200KA2011PTC059719



DBOI Global Services Pvt. Ltd.  
Block V, VI, VII, VIII  
Velankani Tech Park  
43 Electronic City, Phase II  
Hosur Road, Bangalore 560 100

Tel +91 (80) 7166 2000 / 4999

CIN: U72900MH2005PTC158278

**September 02, 2020**

**SERVICE CERTIFICATE**

This is to certify that **Shivani Mundle** was employed with us from **June 01, 2020** to **June 26, 2020** as an Intern in the **GTB** Department of our Bank in **Bangalore**. Internship was successfully completed to enable her to develop her practical skills and provide industry exposure.

We wish **Shivani Mundle** all success in her future endeavors.

Yours faithfully,

**DBOI Global Services Private Limited**

Authorized Signatory Human Resources

Human Resources

Authorized Signatory

# CERTIFICATE of ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Shraddha Vijay Chitte**

Student of **Cummins College of Engineering for Women, Pune**, has successfully completed her **Web Development Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **17th April, 2020 to 20th June, 2020.**

During the course of the internship, **Ms. Shraddha** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled the responsibilities of the web development in **React JS** and **Firebase** sincerely.

In particular, her coordination and front-end development skills are par excellence!

We wish her all the very best for the future!



  
Authorized Signatory

[www.minnanoconsultancy.com](http://www.minnanoconsultancy.com)

# INTERNSHIP CERTIFICATE BY COMPANY



# CERTIFICATE of ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Soumya Keshavanath**

Student of Cummins College of Engineering for Women, Pune has successfully completed her **Video Editing Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **18th May, 2020 to 18th July, 2020.**

During the course of the internship, **Ms. Soumya** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled all the responsibilities of the videography and marketing assignment sincerely.

In particular, her coordination and video editing skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory



# CERTIFICATE of ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Divya P. Vetal**

Student of Cummins College of Engineering for Women, Pune has successfully completed her **Digital Marketing Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **17th April, 2020 to 20th June, 2020.**

During the course of the internship, **Ms. Divya** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled all the responsibilities of the digital marketing assignment sincerely.

In particular, her coordination and digital marketing skills are par excellence!

We wish her all the very best for the future!



  
Authorized Signatory

# CERTIFICATE of ACHIEVEMENT



THIS ACKNOWLEDGES THAT

**Ms. Prajakta Ramesh Satav**

Student of Cummins College of Engineering for Women, Pune, has successfully completed her **Web Development Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **17th April, 2020 to 20th June, 2020.**

During the course of the internship, **Ms. Prajakta** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled the responsibilities of the web development in **Html, CSS and React JS** sincerely.

In particular, her coordination and front-end development skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory



# CENTRE FOR POLICE RESEARCH, PUNE

CHAVAN NAGAR, PASHAN ROAD, PUNE-411008.

TEL NO. : 020-25653696

FAX NO. : 020-25653696

E-MAIL : director.cprpu-mh@gov.in

WEBSITE : www.cprpune.org

O.W. No. / CPR/ 172/2021/Pune

Date: 01/07/2021

## Consultancy Project Completion Certificate

To whomsoever it may concern

This is to certify that **Mrs. Suchitra Morwadkar** has successfully completed the consultancy project on "**Visitor Management System**" during the period 2019-20 successfully for Center for Police Research, Pune.

All the required deliverables are successfully submitted by her.



(**Shirish Sardeshpande**)  
Superintendent of Police  
Centre for Police Research,  
Pune.

---

# Certificate of Project Completion



Awarded to

Pranjali Desai , Darshani Chavan  
Nikita Deoda & Shreya Bhandari

This is to certify on successful completion of final year project with HP Inc. Pune in “Smart prediction of device features for boosting the device performance” .Project duration from 22 August, 2019 till 17 March, 2020 under the guidance and supervision of Sandip Brahmachary - HP Inc.

A handwritten signature in blue ink, appearing to read 'Vishal Bansal', written over a light blue rectangular stamp.

Vishal Bansal  
India Lead -  
University  
Relations

15<sup>th</sup> June 2020

---

# Certificate of Project Completion



Awarded to

Pranjali Desai , Darshani Chavan  
Nikita Deoda & Shreya Bhandari

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India Lead -  
University  
Relations

15<sup>th</sup> June 2020

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Vishal Bansal  
India Lead -  
University  
Relations

15<sup>th</sup> June 2020

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Vishal Bansal  
India Lead -  
University  
Relations

15<sup>th</sup> June 2020



# CERTIFICATE OF PARTICIPATION

**ISHITA KAPOOR**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **RECONCY - TO EXPEDITE THE ACCOUNTS  
RECONCILIATION PROCESS** UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY  
IBM INDIA PRIVATE LIMITED FROM OCTOBER 2019 TO APRIL 2020

IBM Mentors : **SHRIKANT BHAT**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited





# CERTIFICATE OF PARTICIPATION

TEJASWEE KHARE

---

FROM CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

FOR PARTICIPATING & COMPLETING THE PROJECT **RECONCY - TO EXPEDITE THE ACCOUNTS  
RECONCILIATION PROCESS** UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY  
IBM INDIA PRIVATE LIMITED FROM OCTOBER 2019 TO APRIL 2020

IBM Mentors : **SHRIKANT BHAT**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**SONAL TAKALIKAR**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **RECONCY - TO EXPEDITE THE ACCOUNTS  
RECONCILIATION PROCESS** UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY  
IBM INDIA PRIVATE LIMITED FROM OCTOBER 2019 TO APRIL 2020

IBM Mentors : **SHRIKANT BHAT**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**RASHMI SONAWANE**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **RECONCY - TO EXPEDITE THE ACCOUNTS  
RECONCILIATION PROCESS** UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY  
IBM INDIA PRIVATE LIMITED FROM OCTOBER 2019 TO APRIL 2020

IBM Mentors : **SHRIKANT BHAT**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



---

Date: 14-Jul-2020

### **Sponsorship Letter**

This is to certify that the following students from your college have undergone their final Year B.Tech project at our company Espressif System (India) Private Limited for academic year 2019-2020:

#### **Project details as below:**

- **Title:** Microsoft Azure based platform for monitoring IOT devices.
- **Brief:** The IOT cloud platform will allow users to on-board their IOT devices seamlessly and they can control these devices remotely. The IOT cloud platform will allow users to on-board their IOT devices seamlessly and they can control these devices remotely.
- **Duration:** August 2019 to March 2020

#### **Name of the students:**

1. **Abhidha Singh:**
2. **Nehal Dhande:**
3. **Prachitee Maratkar**
4. **Tejashree Date**

We wish them every success in life.

For, Espressif Systems India Pvt. Ltd,

A handwritten signature in blue ink, appearing to read "Rifatul Siddique", written over a light blue circular stamp.

Rifatul Siddique  
Senior Manager -HR  
Email – rifatul.siddique@espressif.com



---

Date: 14-Jul-2020

### **Sponsorship Letter**

This is to certify that the following students from your college have undergone their final Year B.Tech project at our company Espressif System (India) Private Limited for academic year 2019-2020:

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- **Duration:** August 2019 to March 2020

#### **Name of the students:**

1. **Abhidha Singh:**
2. **Nehal Dhande:**
3. **Prachitee Maratkar**
4. **Tejashree Date**

We wish them every success in life.

For, Espressif Systems India Pvt. Ltd,

A handwritten signature in blue ink, appearing to read "Rifatul Siddique", written over a light blue circular stamp.

Rifatul Siddique  
Senior Manager -HR  
Email – rifatul.siddique@espressif.com



---

Date: 14-Jul-2020

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- **Duration:** August 2019 to March 2020

#### **Name of the students:**

1. **Abhidha Singh:**
2. **Nehal Dhande:**
3. **Prachitee Maratkar**
4. **Tejashree Date**

We wish them every success in life.

For, Espressif Systems India Pvt. Ltd,

A handwritten signature in blue ink, appearing to read "Rifatul Siddique", written over a light blue circular stamp.

Rifatul Siddique  
Senior Manager -HR  
Email – rifatul.siddique@espressif.com



---

Date: 14-Jul-2020

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- **Duration:** August 2019 to March 2020

#### **Name of the students:**

1. **Abhidha Singh:**
2. **Nehal Dhande:**
3. **Prachitee Maratkar**
4. **Tejashree Date**

We wish them every success in life.

For, Espressif Systems India Pvt. Ltd,

A handwritten signature in blue ink, appearing to read "Rifatul Siddique", with a horizontal line underneath the name.

Rifatul Siddique  
Senior Manager -HR  
Email – rifatul.siddique@espressif.com




13 Swastishri Society, Karve Nagar, Pune 411052

CIN U74999MH2016PTC284391

## Project Certificate

This is to certify that Ms. Pratim Maloji Bhosale student of MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her B.Tech. project with **Fluid Robotics Pvt Ltd.**

She worked on the project titled "**IoT Based System for Detection of Sewage Blockages**" under the guidance of Mr. Asim Bhalerao. The duration of the project was from August 2019 to April 2020 and was completed successfully on time. We wish her success in her future endeavors.

  
Regards,  
Nidhi Jain  
Director  
Fluid Robotics Pvt Ltd








13 Swastishri Society, Karve Nagar, Pune 411052

CIN U74999MH2016PTC284391

## Project Certificate

This is to certify that Ms. Rucha Narendra Patel, student of MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her B.Tech. project with **Fluid Robotics Pvt Ltd.**

She worked on the project titled "**IoT Based System for Detection of Sewage Blockages**" under the guidance of Mr. Asim Bhalerao. The duration of the project was from August 2019 to April 2020 and was completed successfully on time. We wish her success in her future endeavors.

  
Regards,  
Nidhi Jain  
Director  
Fluid Robotics Pvt Ltd





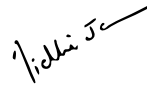
13 Swastishri Society, Karve Nagar, Pune 411052

CIN U74999MH2016PTC284391

## Project Certificate

This is to certify that Ms. Shivani Suresh Bollabattin student of MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her B.Tech. project with **Fluid Robotics Pvt Ltd.**

She worked on the project titled "**IoT Based System for Detection of Sewage Blockages**" under the guidance of Mr. Asim Bhalerao. The duration of the project was from August 2019 to April 2020 and was completed successfully on time. We wish her success in her future endeavors.

  
Regards,  
Nidhi Jain  
Director  
Fluid Robotics Pvt Ltd





13 Swastishri Society, Karve Nagar, Pune 411052

CIN U74999MH2016PTC284391

## Project Certificate

This is to certify that Ms. Shivani Prabhakar Mithapelli student of MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her B.Tech. project with **Fluid Robotics Pvt Ltd.**

She worked on the project titled "**IoT Based System for Detection of Sewage Blockages**" under the guidance of Mr. Asim Bhalerao. The duration of the project was from August 2019 to April 2020 and was completed successfully on time. We wish her success in her future endeavors.

Regards,  
Nidhi Jain  
Director  
Fluid Robotics Pvt Ltd



6<sup>th</sup> Aug 2020

Project Completion Certificate

We hereby certify that **Shruti Shirang Chaudhari**, a student of **Mksss Cummins College of Engineering for Women, Pune** has undergone her internship, starting from 2<sup>nd</sup> Jan 2020 till 15<sup>th</sup> May 2020, at our Pune Corporate office branch.

The title and scope of her project was "IPA in BFL Operations". The project was carried out under the guidance of **Peri Chandrashekhar- National Lead - Credit Operations**

We found her to be a dedicated and diligent student. We take this opportunity to wish her every success in her future endeavors.

Wishing the best,



**Archana Sharma**  
Lead – Talent Acquisition COE  
Human Resources  
Location – Pune

**BAJAJ FINANCE LIMITED**

6<sup>th</sup> Aug 2020

Project Completion Certificate

We hereby certify that **Pragati Gundecha**, a student of **Mkss Cummins College of Engineering for Women, Pune** has undergone her internship, starting from **2<sup>nd</sup> Jan 2020** till **15<sup>th</sup> May 2020**, at our **Pune Corporate office branch**.

The title and scope of her project was **"IPA in BFL Operations"**. The project was carried out under the guidance of **Peri Chandrashekhar- National Lead - Credit Operations**.

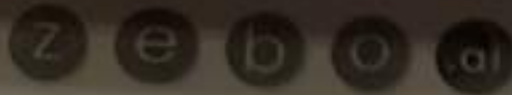
We found her to be a dedicated and diligent student. We take this opportunity to wish her every success in her future endeavors.

Wishing the best,



**Archana Sharma**  
**Lead - Talent Acquisition COE**  
**Human Resources**  
**Location - Pune**

**BAJAJ FINANCE LIMITED**



Shot with my Galaxy M31  
Samsung Quad Camera

# INTERNSHIP



## CERTIFICATION

This is to certify that

*Anushka George*

---

has successfully completed internship program in **Data Science with Python**  
from 06th May, 2020 to 06th Jul, 2020. During the internship, the student  
was found to be dedicated, hardworking and diligent.

A handwritten signature in black ink, appearing to read 'Anushka'.

ACADEMIC HEAD



A handwritten signature in black ink, appearing to read 'Anushka'.

DIRECTOR SIGNATURE



## AUTOMATE ENGINEERING

Office Address 1<sup>st</sup> Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 41

Phone No: +91 7768999559

E-mail: [connect.automate@gmail.com](mailto:connect.automate@gmail.com)

Website: [www.automateengg.com](http://www.automateengg.com)

### INTERNSHIP CERTIFICATE

Name: Ms. Chaitali Prakash Kahate

College: Cummins college of engineering for womens, Pune

Department: Instrumentation and control.

Domain of Internship: Factory Automation

Training date from: 10<sup>th</sup> June to 10<sup>th</sup> July 2020

During the period of Training Program at AUTOMATE ENGINEERING, the Candidate was found punctual, hardworking and inquisitive.

For AUTOMATE ENGINEERING,

Authorized Signature



Samsung Quad Camera  
Shot with my Galaxy M31

स्टर्न कोलफिल्ड्स लिमिटेड  
WESTERN COALFIELDS LIMITED

ग्रान प्रबंधक का कार्यालय : नीलजई ओपनकास्ट माईन  
OFFICE OF THE MINE MANNAGER : NEELJAY OPENCAST MINE  
वणी क्षेत्र, पोस्ट : बेलोरा, तह. वणी, जीला : यवतमाल (महाराष्ट्र) 445 304  
संदर्भ :-वेकोली / वक्षे / नीलओका / प्रबंधक / सुरक्षा / 2020 / 2275 दिनांक : 24.1.2020

2275

## Certificate of Industrial Training

This is to certify that **Miss. Chaitali Prakash Kahate** ,  
**B.E. (Instrumentation & Control)**, student of Cummins  
College of Engineering for Women has been undergone  
Industrial training at Neeljay Opencast Mine from  
24.12.2019 to 04.01.2020 ( Twelve Days).

During the training she has gone through operation,  
maintenance and calibration of PBX, GPS, weighbridge and  
Walki-Talkie communication system being used in opencast  
mines and also gained the knowledge of electronic controls  
used in CAT 60, BH60 dumpers, BE 1000 Hydraulic  
Excavators..

She has completed the training successfully at Neeljay  
Opencast Mine of Wani Area, Western Coalfields Limited, a  
subsidiary of Coal India Limited.

  
24/1/2020  
Colliery Manager  
Neeljay Opencast Mine  
Wani Area (WCL)  
Neeljay Expansion Dept. DUM



Samsung Quad Camera  
Shot with my Galaxy M31





Samsung Quad Camera  
Shot with my Galaxy M31

# INTERNSHIP CERTIFICATION



This is to certify that

*Dipika Deogadkar*

has successfully completed internship program in **Data Science with Python**  
from 06th May, 2020 to 06th Jul, 2020. During the internship, the student  
was found to be dedicated, hardworking and diligent.

A handwritten signature in black ink, appearing to read 'Rushika'.

ACADEMIC HEAD



A handwritten signature in black ink, appearing to read 'Ajith'.

DIRECTOR SIGNATURE



9<sup>th</sup> Dec 2020

**TO WHOMSOEVER IT MAY CONCERN**

We are glad to inform that **Ms. Disha Bhagwat** bearing Intern Id: **IA200702** student at **Cummins College of Engineering for Women, Pune** has successfully completed her internship at AVRN Labs from 10<sup>th</sup> Jul 2020 to 31<sup>st</sup> Oct 2020 for the academic requisites.

During her internship she was exposed to **Product Planning & Designing** in the **Product Development Division** and worked on Video Doorbell. We have observed that her work was satisfactory, and we appreciate her sincere learning. She has completed the project with energy and enthusiasm.

We wish her all the best for future endeavours.

Yours Sincerely,

For **AVRN Labs**

A handwritten signature in blue ink that reads 'Suchi Mody'.

**Ms. Suchi Mody**  
**Human Resources**

**AVRN Labs**

Off: E-7/M-557, Arera Colony, Bhopal (M.P.), India.

Tel: +91-755-4075416

Email: info@avrn.in

www.avrn.in



Shot with my Galaxy M31

# Samsung INTERNSHIP CERTIFICATION



This is to certify that

*Madhu Athanikar*

has successfully completed internship program in **Data Science with Python**  
from 06th May, 2020 to 06th Jul, 2020. During the internship, the student  
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD



DIRECTOR SIGNATURE

DATE: 03/08/2020

REF. No.: ESKILL/B1/B2/93



Enovate Skill

(NITTTR CHANDIGARH START-UP)



(CERTIFICATION NO.: 19ZQG02548Q)

# Certificate

**THIS IS CERTIFIED THAT MANSI BOBE, ROLL NO/ENROLMENT NO. C22018332523 STUDENT OF INSTRUMENTATION AND CONTROL ENGINEERING, MKSS'S CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE HAS SUCCESSFULLY COMPLETED 60 HOURS (4 WEEKS) INDUSTRIAL TRAINING/INTERNSHIP ON "ROBOTICS" CONDUCTED BY ENOVATE SKILL VIA ICT MODE. HIS/HER PERFORMANCE IN THE TRAINING IS RATED HIGH.**

**FROM 01-06-2020 TO 08-07-2020.**

**ENOVATE SKILL**

A handwritten signature in black ink, appearing to read "Anudaa".

Director



## AUTOMATE ENGINEERING

Office Address: 1<sup>st</sup> Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43

Phone No: +91 7768999659

E-mail: [connect.automate@gmail.com](mailto:connect.automate@gmail.com)

Website: [www.automateengg.com](http://www.automateengg.com)

### INTERNSHIP CERTIFICATE

Name: Ms. Pooja Devidas Kale

College: Cummins college of Engineering for women, Pune

Department: Instrumentation and control

Domain of Internship: Factory Automation

Training date from: 10<sup>th</sup> June to 10<sup>th</sup> July 2020

During the period of Training Program at AUTOMATE ENGINEERING, the Candidate was found punctual, hardworking and inquisitive.

For AUTOMATE ENGINEERING,

Authorized Signature



Shot with my Samsung Quad Camera  
Shot with my Galaxy M31

वेस्टर्न कोलफिल्ड्स लिमिटेड  
WESTERN COALFIELDS LIMITED

खान प्रबंधक का कार्यालय : नीलजई ओपनकास्ट माईन  
OFFICE OF THE MINE MANNAGER : NEELJAY OPENCAST MINE

वणी क्षेत्र, पोस्ट : बेलोरा, तह. वणी, जिला : यवतमाल (महाराष्ट्र) 445 304

संदर्भ :- वेकोली / वसे / नीलओका / प्रबंधक / सुरक्षा / 2020 / 2273 दिनांक : 24.1.2020

## Certificate of Industrial Training

This is to certify that **Miss. Pooja Devidas Kale,**  
**B.E. (Instrumentation & Control),** student of  
Cummins College of Engineering for Women has been  
undergone Industrial training at Neeljay Opencast Mine  
from 24.12.2019 to 04.01.2020 ( Twelve Days).

During the training she has gone through operation,  
maintenance and calibration of PBX, GPS, weighbridge and  
Walki-Talkie communication system being used in opencast  
mines and also gained the knowledge of electronic controls  
used in CAT 60, BH60 dumpers, BE 1000 Hydraulic  
Excavators..

She has completed the training successfully at Neeljay  
Opencast Mine of Wani Area, Western Coalfields Limited, a  
subsidiary of Coal India Limited.

  
24/1/2020  
Colliery Manager (जनरल)  
Neeljay Opencast Mine  
Wani Area (WCL)  
Western Coalfields Limited

Samsung Quad Camera  
Shot with my Galaxy M31





**SHREE SYSTEMS PVT. LTD.**

Date: 29/12/2020

TO WHOM IT MAY CONCERN,

This is to certify that Ms. Ruchita Wani has completed her internship at Shree Systems Pvt Ltd, Pune dated from 24<sup>th</sup> October, 2020 till 28<sup>th</sup> December, 2020.

Ms. Ruchita studied the Hydraulic and Pneumatic software. She worked on a project titled Demo Process Control Trainer, where she drew basic circuit, prepared detailed bill of material, wrote operation sequence and Input-Output List. She took active participation in vendor standardization.

During the internship she demonstrated good skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and she has proven to be a valuable asset.

We wish her all the best for her future endeavors.

Regards,



Shree Systems Pvt. Ltd.

DATE: 18/07/2020

REF.No.: ESKILL/ROBOT/26



Enovate Skill

(NITTTR CHANDIGARH START-UP)



(CERTIFICATION NO.: 19ZQZG02548Q)

# Certificate

**THIS IS CERTIFIED THAT SAMEEKSHA VIJAY BHALERAO, ROLL NO./ENROLMENT NO. 3537 STUDENT OF INSTRUMENTATION, MKSS CUMMINS COLLEGE OF ENGINEERING HAS SUCCESSFULLY COMPLETED 60 HOURS (4 WEEKS) INDUSTRIAL TRAINING/INTERNSHIP ON "ROBOTICS" CONDUCTED BY ENOVATE SKILL VIA ICT MODE. HIS/HER PERFORMANCE IN THE TRAINING IS RATED HIGH.**

**FROM 01-06-2020 TO 08-07-2020.**

**ENOVATE SKILL**

A handwritten signature in black ink, appearing to read "A. Bhalerao".

Director




# CERTIFICATE OF PARTICIPATION

Certificate Proudly Presented To

*Srujita Lekhande*

has successfully completed internship program in  
**IOT and Robotics**  
under technology department from the dates 23rd Jul, 2020 to 22nd Aug, 2020

 **Oasis '20**  
**BITS PILANI**

*Ruchika*

Sai Krishna Foods plot no. D/47

MIDC Nanded - 431603

Email : skfoods315@gmail.com

sunday 2nd August , 2020



**SUB : INTERNSHIP COMPLETION LETTER**

We are glad to inform you that Ms. Snehal Balaji Amrutwar from Cummins college of engineering for women's pune , has successfully completed her internship at Sai Krishna Foods from 1st July, 2020 - 30th July, 2020.

During her internship, she was exposed to the various activities in Automation, Manufacturing, Marketing and Management. We found her extremely inquisitive and hard working.

Her association with us was very faithful and we wish her all the best in her future endeavours.

A handwritten signature in black ink, appearing to be 'S. K. Amrutwar', written in a cursive style.

Authorized signatory

Sai krishna foods MIDC,Nanded.



## AUTOMATE ENGINEERING

Office Address 1<sup>st</sup> Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43

Phone No: +91 7708999659

E-mail: [connect.automate@gmail.com](mailto:connect.automate@gmail.com)

Website: [www.automateengg.com](http://www.automateengg.com)

### INTERNSHIP CERTIFICATE

Name: Ms. Snehal Kishore Babladkar

College: Cummins college of engineering, Pune

Department: Instrumentation Engineering

Domain of Internship: Factory Automation

Training date from: 10<sup>th</sup> June to 10<sup>th</sup> July 2020

During the period of Training Program at AUTOMATE ENGINEERING, the Candidate was found punctual, hardworking and inquisitive.

For AUTOMATE ENGINEERING,

Authorized Signature



Samsung Quad Camera  
Shot with my Galaxy M31



Date: 03 August, 2020

## INTERNSHIP CERTIFICATE

This is to certify that Ms. **Urvashi Taki** (T.E, Cummins Engineering College, Pune) has done her internship at **Bi-Embedly Technologies LLP**, Pune from May to July,2020.

As part of the project, she has worked on

1. Python GUI Architecture which involved design framework for inputs from user
2. Design of GUI as per system requirements and back-end integration
3. Back-end database management
4. Integrated system with Raspberry Pi based system
5. Serial interfacing
6. Performed unit level testing for front and back end systems.

During the internship she demonstrated good design skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time. Her exemplary belief in diving in unknown subjects is a plus for any organization.

We wish her all the best for her future endeavors.

Warm regards,  
**Neha Girme-Supekar**  
Co-founder

7387329537

[info@bi-embedly.com](mailto:info@bi-embedly.com)

[www.bi-embedly.com](http://www.bi-embedly.com)

C-11/A Chintamani Nagar-1, Bibvewadi,Pune





## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr./Ms. **Valshnavi Kshirsagar**, has successfully completed the summer internship at **SmartBridge Educational Services Private Limited** from **05/14/2020 to 06/13/2020**

During the internship he/she has worked under the supervision of project mentor & developed the project entitled "**Smart Agriculture system based on IoT**".

He/she was found hardworking, punctual and inquisitive, during the tenure of internship

We wish him/her every success in career.

**Jayaprakash. Ch**

Program Manager

**June 18, 2020**

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<https://smartinternz.com/internships/certificates/58e4d44e550d0f7ee0a23d6b02d9b0db>

Subject: B.Tech Project - PREDICTIVE SYSTEM MODELING FOR GROUND FUELING SYSTEM

To: [anand.bewoor@cumminscollege.in](mailto:anand.bewoor@cumminscollege.in) <[anand.bewoor@cumminscollege.in](mailto:anand.bewoor@cumminscollege.in)>, [poonam.pingle@cumminscollege.in](mailto:poonam.pingle@cumminscollege.in) <[poonam.pingle@cumminscollege.in](mailto:poonam.pingle@cumminscollege.in)>

Cc: Sathu, Yogesh <[Yogesh.Sathu@eaton.com](mailto:Yogesh.Sathu@eaton.com)>, Nehate, Chandrashekhar <[ChandrashekharNehate@eaton.com](mailto:ChandrashekharNehate@eaton.com)>, More, Parag <[ParagMore@eaton.com](mailto:ParagMore@eaton.com)>, Pawar, Paloma <[PalomaPawar@eaton.com](mailto:PalomaPawar@eaton.com)>

Hi Anand & Poonam,

Please find attached problem statement details for your reference.

Below are the details related to execution of Project.

Problem Statement: PREDICTIVE SYSTEM MODELING FOR GROUND FUELING SYSTEM

Project Guide from Eaton: **Parag More** ([ParagMore@Eaton.com](mailto:ParagMore@Eaton.com))

Project Execution : Project will be executed in college by students & they would get the technical guidance from our side.

Funding requirements : No funding required for this project.

Stipend : No Stipend will be provided as this is not an internship project.

Duration of the project : ~ 5-6 months

Kindly let us know if you need any **more** support from our end.

Thanks,  
**Mrunalini Shimpi**

HR-Technical Learning

Activate Windows

Go to Settings to activate Windows.

Telephone - (91) (020) 27044200  
(91) (020) 27044208  
Fax - (91) (020) 27044202  
(91) (020) 27044010  
E-mail - lmsg@rde.drdo.in



भारत सरकार, रक्षा मंत्रालय,  
Government of India, Ministry of Defence,  
रक्षा अनुसंधान तथा विकास स्थापन,  
Defence Research & Development Organisation,  
अनुसंधान तथा विकास स्थापन (इंजीनियर्स),  
Research & Development Establishment (Engineers),  
कलस, आलंदी रोड, दिघी पो.ऑ., पुणे - 411015, भारत  
Kalas, Alandi Road, Dighi P.O., Pune-411 015, INDIA

RDE/90008/MSG

Date: 17 May 2019

To

Dr. Ajit. A. Bhosale  
Head Department of Mechanical  
MKSSS, Cummins College of Engg for Women,  
Karvenagar,  
Pune- 411052.

Dear Madam/Sir,

Subject:-PERMISSION FOR STUDENT PROJECT

Reference: - Letter No. Nil, Dated 25 Jan 2019

1. I am pleased to inform you that following Student has been granted permission to do Student Project work at this establishment from Jul 2019 - Jun 2020 :-

Name of the student(s)	Subject	Guide from establishment & Title of the Project	Guide from College
i) Ms Aditi Kiran Salka. ii) Ms Sayali Sanjay Shinde. iii) Ms Shivani Jaysingh Pawar	B Tech ( Mechanical)	Mr MK Pathak, Sc 'F' ASG: Mechanical Design of four legged Platform with Enhanced Mobility Using for Soldier Assistance in Rough Terrain.	Asst Prof Mr Yashwant S. Munde

2. It is expected that the student will observe the normal rules contained therein to maintain discipline.

3. After completion of project work, it may please be ensured that one hard copy+ one soft copy of Student Project report be submitted to KIITM Group. The design/model developed by the student will be given to them for presentation at the time of examination. However, after the examination, this establishment will retain the models.

4. Kindly note that the Students will not be granted stipend, TA/DA, lodging and boarding facility etc.

5. Please acknowledge receipt of this letter.

With regards,

(MR SUNIL DOIPHODE)  
Sc 'E'  
For DIRECTOR

Copy to:

✓ 1. Mr MK Pathak, Sc 'F'  
(through ASG)

2. Head TIC

Please ensure that :-

- Project Completion Certificate is signed by GDIMSG (HRD Coordinator) & Guide from Estt.
  - Soft Copy of Project Report be submitted online to PDOC and Hard Copy to TIC under intimation to this Group.
- : for info & n.a.pl.

5  
20/5/19

**G. RAVINDER**  
Scientist 'E'  
Project NAG MINISTRY OF  
PHONE : 040-24583045  
FAX : 040-24340018



GOVERNMENT OF INDIA  
DEFENCE  
DEFENCE RESEARCH AND  
DEVELOPMENT LABORATORY  
KANCHANBAGH PO  
HYDERABAD - 500 058

## CERTIFICATE

This is to certify that Ms. Priya Suryawanshi of MKSSS's Cummins College of Engineering for Women, Karve Nagar, Pune has successfully completed the project work entitled "Design & Development of high pressure pure gas bottle for IR detector cooling" at DRDL, Hyderabad under my supervision and guidance. Further, it is certified that the said project is carried out for partial fulfillment of the award of BACHELOR OF TECHNOLOGY in Mechanical Engineering from MKSSS's Cummins College of Engineering for Women, Karve Nagar, Pune



**G. Ravinder**  
Scientist 'E'  
DRDL



**Schindler India Pvt. Ltd.**

Plot No. D-234, Near Village Warale, Chakan MIDC,  
Phase II, Taluka- Khed, 410501 Pune, Maharashtra, India

**To Whomsoever It May Concern**

From: Shilpa Hulikavi  
Telephone: 02135 628000  
E-mail: Shilpa.hulikavi@schindler.com  
Reference No: HR/INTERN/2020  
Date: September 20th, 2020  
Subject: Internship Certificate

This is to certify that **Ms. Vrushali Patil** has successfully completed her Six months Internship program in our organization from **3<sup>rd</sup> February, 2020 to 30<sup>th</sup> August, 2020**. She has completed the tasks given to her during her internship program.

Details of the Projects assigned and completed by her during the Internship program :

Sr. No.	Project Assigned	% Completion
1.	Updating Test Specification in relevance with different Codes and standards.	60 %
2.	Mechanical Lab Upgradation.	80 %

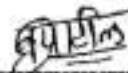
During her project duration, we found her sincere and dedicated to the assignment.

We wish her all the best in her future endeavors.

Yours sincerely  
Schindler India Pvt. Ltd.

Shilpa Hulikavi  
Head – HR CR&D, IN

I have read and understood the content of letter.



Signature of the Student

Head Office:  
B 401, Delphi  
Hiranandani Business Park  
Powai, Mumbai 400076  
Tel: +91 22 67031000  
Fax: +91 22 67030145 / 55  
email: india@in.schindler.com

Corporate Research & Development  
Plot no.D-234 Near village Warale, Chakan  
MIDC phase-II, Taluka - Khed | 411501  
Pune, Maharashtra India Tel: +91  
02135628020  
Fax: +91 2135 628200

**Schindler India Pvt. Ltd.**  
Plot No. D-234, Near Village Warale, Chakan MIDC,  
Phase II, Taluka-Khed, 410501 Pune, Maharashtra, India

**To Whomsoever It May Concern**

**From** Shilpa Hulikavi  
**Telephone** 02135 628000  
**E-mail** Shilpa.hulikavi@schindler.com  
**Reference No.** HR/INTERN/2020  
**Date** September 20th, 2020  
**Subject** Internship Certificate

This is to certify that Ms. Mohini Kadam has successfully completed her Six months Internship program in our organization from 3<sup>rd</sup> February, 2020 to 30<sup>th</sup> August, 2020. She has completed the tasks given to her during her internship program.

Details of the Projects assigned and completed by her during the Internship program :

- Tool automation for Test Tower 2D Layout generation (in Creo Parametric) to reduce cycle time

During her project duration, we found her sincere and dedicated to the assignment.

We wish her all the best in her future endeavors.

Yours sincerely  
Schindler India Pvt. Ltd.

Shilpa Hulikavi  
Head – HR CR&D, IN

I have read and understood the content of letter.



Signature of the Student

Head Office:  
B 401, Orphi  
Hiranandani Business Park  
Powai, Mumbai 400076  
Tel: +91 22 67031000  
Fax: +91 22 67030145 / 55  
email: india@in.schindler.com

Corporate Research & Development  
Plot no.D-234, Near village Warale, Chakan  
MIDC phase-II, Taluka - Khed | 411501  
Pune, Maharashtra India Tel: +91  
02135628000  
Fax: +91 2135 628000

Ref: Cummins/PSBU/CIL/INTERN  
30 April 2020

### CERTIFICATE

This is to certify that **Rucha Mohan Zagade**, from **MKSSS's Cummins College of Engineering For Women** has successfully completed her Project in Cummins India Limited - Power Systems Business Unit.

She has done her project with us from **8/July/2019 to 30/April/2020**

The topics of her project was-

- **Design Optimization of Aftercooler Plumbing & Hose Joints on Heavy Duty Diesel Engine**

Her performance was found satisfactory during the period.

We wish her all the best for all her future endeavors.

For Cummins India Limited



**Tushar Tejawat**  
Sr. General Manager, HR - Power Systems



Ref No.:- CTCI/HR/2020/1160

Date: - 15<sup>th</sup> June 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Vaidehi Arun Adiverekar** student of **MKSSS's Cummins College Of Engineering For Women – Pune**, was interning with us during the period of **08<sup>th</sup> Jul 2019 to 15<sup>th</sup> Jun 2020** and has worked on the project **“SELECTION OF DOC (DIESEL OXIDATION CATALYST) HARDWARE (SIZING) WHICH MEETS REQUIREMENT OF LIGHT-DUTY DIESEL ENGINE FOR OFF-HIGHWAY PROJECT”** under the guidance of **Shashank Punde**.

We wish **Vaidehi Arun Adiverekar** all the best for her future endeavors!

For Cummins India Limited

**Nazneen  
Husain**

Digitally signed by  
Nazneen Husain  
Date: 2020.06.15  
17:19:40 +05'30'

**Nazneen Husain**  
Segment HR Leader – ITO Human Resource

Cummins India Limited  
Kothrud, Pune 411036 Maharashtra, India  
Phone +91 20 2538 8435/ 2538 0240  
Fax +91 20 67067015  
[ci\\_investors@notes.cummins.com](mailto:ci_investors@notes.cummins.com)

CIN : L29112PN1982PLC012276



20<sup>th</sup> October 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Shivani Gopichand Ganvir** pursuing her M. Tech 2nd year, has successfully completed her project during her internship from 3<sup>rd</sup> July 2019 to 16<sup>th</sup> March 2020. The project title given to her was **“Developing improved simulation methodology for Canopy structure of compressor systems”** at Atlas Copco, GECIA, Hinjawadi, during her internship tenure, under the guidance of Mr. Sangmesh Gadad.

**Atlas Copco (India) Ltd.**

**Ketki Shirvalkar**  
**Human Resources Manager**

**Atlas Copco (India) Ltd.**  
Global Engineering Center India Airpower

**Registered Office:**  
Mumbai-Pune Road  
Sveanagar, Dapodi, Pune 411 012.  
Tel.: 91-020-39852100, 39852455, Fax: 91-020-27146038  
Website: [www.atlascopco.com](http://www.atlascopco.com)

**Reply to:**  
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Hinjawadi, Pune-411057  
Fax: +91-20-39804802

Reach us @ 1800 200 0030



**KINETIC GREEN**  
A Better Tomorrow

Date: 15<sup>th</sup> July 2020.

**TO WHOM IT MAY CONCERN**

This is to certify that Miss. Pooja Changdeo Sonawane student of MKSSS's Cummins College of Engineering for Women, Pune, has successfully completed her project on "Effectiveness of Advanced Product Quality Planning" during the period of July 15, 2019 to July 15, 2020.

As informed by her project guide Mr. Rohit R. Gundecha, she has completed the internship based project successfully. She was found to be sincere, inquisitive and hardworking.

We wish her great success in upcoming period.

For Kinetic Green Energy and Power Solution LTD, Ahmednagar.



Mr. Malay Paturkar

Sr. GM, Plant Operations.

Kinetic Green Energy & Power Solutions Ltd.  
Kinetic Innovation Park, D-1 Block,  
Plot No. 18/2, MIDC, Chinchwad, Pune - 411 019.  
Tel. : +91 20 66142049, Fax : +91 20 66142088 / 89  
Website : [www.kineticgreenvehicles.com](http://www.kineticgreenvehicles.com)



Ref No.: CTIPL/HR/2020/200

Date:- 21-Apr-2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Darshana Patil**, student of **Cummins College of Engineering, Pune** has successfully completed her project on **"Development of process for torsional modelling of electric vehicle driveline."** during the period of **08<sup>th</sup> Jul 2019 to 30<sup>th</sup> Apr 2020**.

As informed by her Project Guide – **Ms. Priyanka Dannana** she has completed the project successfully. She was found to be sincere, hardworking and showed keen interest in her assignments during this period.

We wish **Darshana Patil** all the best for her future endeavors!

**For Cummins Technologies India Private Limited,**

**Nazneen Husain** Digitally signed by  
Nazneen Husain  
Date: 2020.04.30  
15:57:48 +05'30'

**Nazneen Husain**  
**Segment HR Leader - ITO**

Cummins Technical Center India  
Division of Cummins Technologies India Private Limited  
Survey No.31(pt),32(pt),33(pt)  
Bahanurkar Colony, Kothrud  
Pune 411008 Maharashtra, India  
Phone +91 20 2538 5435/ 2638 0240  
Fax +91 20 2538 0125  
CumminsIndia.com  
ctipl@cummins.com

Registered Office  
Cummins Technologies India Private Limited  
Cummins India Office Campus  
Tower A, 2<sup>nd</sup>, 4<sup>th</sup> and 8<sup>th</sup> Floor, Survey No.21  
Balewadi Pune 411045, Maharashtra, India  
CIN : U29113PN1994FTC139153



ADCL-FAFECO Engineering Private Limited  
Plot No.4 , Sub Survey No.1,  
Chandivill Farm, Andheri East,  
MUMBAI 400072. INDIA.  
Tel. : +91 22 43407777 Fax : +91 22 28571793  
CIN : U29253MH2013PTC239214  
Email Address: - [mumbai@adfengg.com](mailto:mumbai@adfengg.com)  
ADF/HR/F/02/01/10/2017-5

**CERTIFICATE OF INTERNSHIP**

**Date: 11.01.2021**

**TO WHOM SO EVER IT MAY CONCERN**

*This is to certify that Ms. Supriya Pandit Koli a bonafide student of SY M.Tech studying in Cummins College of Engineering for Women Karvenagar, Pune. She has done project work on "Helium Shroud Mechanism" in our Company from 19th August 2019 to 30<sup>th</sup> June 2020.*

*During this training period she found to be sincere, honest and punctual.*

*We would like to congratulate her for her exemplary dedication and worthy attendance.*

*We wish her for great future!!!*

*For ADCL-FAFECO Engineering Pvt. Ltd.*

  
*Nishant Kamble*



*Human Resources Manager*

**Works : Gat No.448/8, Behind Mahindra Automotive, Chakan-MIDC, Nighoje, Pune - 410501**  
**Email: - [pune@adfengg.com](mailto:pune@adfengg.com). Phone # 020 - 65110230**

Subject to Mumbai - Jurisdiction only





Lear India Engineering LLP  
LLP Registration No : 4916484  
E-25, 26 & 27, Shreeji MIDC,  
Pune - 411028  
Maharashtra, India  
Phone : +91 (2135) 5612 3000  
Fax : +91 (2135) 5612 3056

Date: 6<sup>th</sup> July 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Shubhechha Mahajan has successfully completed Internship in Lear Corporation under the guidance of Mr. Gaurav Deshpande.

During the tenure with us, the Shubhechha has worked on the following project(s):

Project Name: Durability of seat structure in FEA

Project Start Date: 29<sup>th</sup> July 2019

Project End date: 30<sup>th</sup> June 2020

We found her to be sincere, hardworking and diligent throughout the internship period.

Wishing her all the best for her future endeavors.

For Lear India Engineering LLP

Anub Goswami  
General Manager- Human Resources



Ref No.:- CTCI/HR/2020/1159

Date: - 15<sup>th</sup> June 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Manasi Tavanappa Bagi** student of **Cummins College Of Engineering For Women**, was interning with us during the period of **08<sup>th</sup> Jul 2019 to 15<sup>th</sup> Jun 2020** and has worked on the project "**Development Of Nominal Combustion Reference Surface And Thermal Management Strategy For Cummins 4.5L Diesel Engine Complying CEV BSIV Legislative Norms**" under the guidance of **Ranjeet Roy**.

We wish **Manasi Tavanappa Bagi** all the best for her future endeavors!

**For Cummins India Limited**

**Nazneen Husain** Digitally signed by  
Nazneen Husain  
Date: 2020.06.15  
15:58:23 +05'30'

**Nazneen Husain**  
**Segment HR Leader – ITO Human Resource**

Cummins India Limited  
Kothrud, Pune 411038 Maharashtra, India  
Phone +91 20 2538 5435/ 2538 0240  
Fax +91 20 67067015  
[CI.Investor@nares.cummins.com](mailto:CI.Investor@nares.cummins.com)

CIN - L29112PN1962PLC012276

Date: 11<sup>th</sup> November 2020

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Poonam Rajaram Sonawane** pursuing her 2<sup>nd</sup> year MTech (Master of Technology) at Cummins College of Engineering for Women, Pune has successfully completed "INTERNSHIP PROGRAM" from 17<sup>th</sup> Feb 2020 to 5<sup>th</sup> December 2020 in Faurecia Clean Mobility, Bangalore Technical Center, Bangalore. She has made valuable contribution in completion of the project on "Resonance Frequency Simulation and Validation of Hangers of Exhaust Systems". We found Ms. Poonam Rajaram Sonawane to be a woman of good character and conduct during her internship.

We wish her all the best for her future endeavors.

*Shivakanth . U*  
Project Guide  
Shivakanth Udayakumar

*Sheelvanth . V*  
Team Leader - FEA  
Sheelvanth Veeranna

Warm Regards,

*Vivek B*  
Vivek Baliga

Senior Manager, CAE

Bangalore Technical Center, Bangalore

Faurecia India Private Limited.

**Faurecia India Private Limited**

(Formerly known as Faurecia Emissions Control Technologies Technical Center India Private Limited)

Corporate Off: UB Plaza, 1 & 2, Vitthal Mallya Road, Bangalore - 560001, Karnataka, India. Tel: +91-80-4512 3123

Regd. Address: Plot# T-187, Pimpri Industrial Area, (B.G Block), Bhosari, Pune - 411026, India. Tel: +91-20-66149700

Corporate Identification Number: U34300PN2004PTC019215

www.faurecia.com



## Mechatol Engineering Solutions

### Office address

Ketan park second floor opposite to suraj nagar, near guruganesh nagar  
shantiban chowk kothrud pune maharashtra -411038  
[www.mechatol.in](http://www.mechatol.in)

### Internship completion letter

Date: 16.07.2020

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Miss Monika Pramod Awari was working as full-time Trainee design engineer at our company Mechatol engineering solution, Pune office

Miss Monika Pramod Awari credentials in our company records are as follows- Full

Name: **Monika Pramod Awari**  
College Name: **MKSSS's Cummins College of Engineering for women's, Pune**  
Designation: **Design engineer**  
Joining Date: **18.7.2019**  
Resignation Date: **15.07.2020**  
Working Hours: **48 hours/week (Monday to Saturday)**

Until today she has completed 12 months of employment with us after gaining her Post Graduate degree (M.Tech)

We have found her very sincere and independent during her services to the company. Please do not hesitate to contact us for any information you may require in the future for her employment with us

**Mr. Anand Bhise**

Mr. Anand Bhise  
Director | Mechatol Engineering Solutions, Pune, India



Date: 26-June-2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Akiwate, Prajakta Prakash** has done her project with us from 8<sup>th</sup> July 2019 to 26<sup>th</sup> June 2020.

She has successfully completed her project work in Cummins Electronics & Fuel systems India Limited and her performance was found satisfactory during the period.

**Project Title – “Evaluation of Design Parameters of Armature”  
“Responsible for Injector Performance Transparency”**

**Guide Name – Vivek V Parab**

We wish her all the best for all her future endeavors.

For **Cummins Technologies India Private Limited**

**Bhavika Mehta**

Digitally signed by Bhavika  
Mehta  
Date: 2020.06.26 12:50:18  
+05'30'

**Bhavika Mehta  
HR Leader – CEFS & CFBU Engineering**

Cummins Technical Centre India  
Division of Cummins Technologies India Private Limited  
Survey No. 31(pt), 32(pt), 33(pt),  
Dahanukar Colony, Kothrud, Pune 411038,  
Maharashtra, India  
Phone number +91 020 2538 5435 / 2538 0240  
Cumminsindia.com  
ctci@cummins.com

Register Office  
Cummins Technologies India Private Limited,  
Cummins India Office Campus  
Tower A, 2nd, 4th & 8th Floor, Survey No. 21,  
Balewadi, Pune 411045, Maharashtra, India  
CIN:U29113PN1994FTC139153

**Schindler India Pvt. Ltd.**

Plot No. D-234, Near Village Warale, Chakan MIDC,  
Phase II, Taluka- Khed, 410501 Pune, Maharashtra, India

**To Whomsoever It May Concern**

From **Shilpa Hulikavi**  
Telephone **02135 628000**  
E-mail **Shilpa.hulikavi@schindler.com**  
Reference No. **HR/INTERN/2020**  
Date **September 20th, 2020**  
Subject **Internship Certificate**

This is to certify that **Ms. Gauri Divekar** has successfully completed her Six months Internship program in our organization from **3<sup>rd</sup> February, 2020 to 30<sup>th</sup> August, 2020**. She has completed the tasks given to her during her internship program.

Details of the Projects assigned and completed by her during the Internship program :

- **Project 1 – Develop Analytical Calculator for Guide Rail Loads based on EN81-20 including Guide rail and Brackets system design**
- **Project 2 – Study and compare Guide rail system Strength calculations derived from analytical calculations and FEA tools**

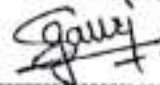
During her project duration, we found her sincere and dedicated to the assignment.

We wish her all the best in her future endeavors.

Yours sincerely  
Schindler India Pvt. Ltd.

Shilpa Hulikavi  
Head – HR CR&D, IN

I have read and understood the content of letter.



Signature of the Student

Head Office:  
B 401, Delphi  
Hiranandani Business Park  
Powai, Mumbai 400076  
Tel: +91 22 67031000  
Fax: +91 22 67030145 / 55  
email.india@in.schindler.com

Corporate Research & Development  
Plot no D-234 Near village Warale, Chakan  
MIDC phase-II, Taluka - Khed | 411501  
Pune, Maharashtra India Tel: +91  
02135628020  
Fax: +91 2135 628200



Date: April 27, 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Lohakare, Pratiksha Ambadas**, student of MKSSS's Cummins college of Engineering for women, has successfully completed her project on "**Piston material selection using Benchmark study and FEA tool**" during the period July 08, 2019 - April 30, 2020.

As informed by her Project Guide – Daunde, Ganesh Rajaram, she has completed the project successfully. She was found to be sincere, hardworking and showed keen interest in her assignments during this period.

We wish her all the best for all her future endeavors.

**For Cummins India Limited,**

**Nazneen  
Husain**

Digitally signed by  
Nazneen Husain  
Date: 2020.04.30  
12:18:22 +05'30'

**Nazneen Husain  
Segment HR Leader - ITO**

Cummins India Ltd.  
Registered Office  
Cummins India Office Campus  
Tower A, 5<sup>th</sup> Floor, Survey No. 21, Balewadi  
Pune 411 045 Maharashtra India  
Phone +91 20 67067000  
Fax +91 20 67067015  
cil.investors@notes.cummins.com

CIN: L29112PN1962PLCO12276



Ref No.:- CTCI/HR/2020/1150

Date: - 29<sup>th</sup> April 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Gayatri Milind Walhekar** student of **Cummins College of Engineering for Women**, has successfully completed her project on **"Impact Of High Sulphur Exposure On Automotive SCR Performance"** during the period of **08<sup>th</sup> July 2019 to 30<sup>th</sup> April 2020**.

As informed by her Project Guide – **Shashank Punde**, she has completed the project successfully. She was found to be sincere, hardworking and showed keen interest in her assignments during this period.

We wish **Gayatri Milind Walhekar** all the best for her future endeavors!

**For Cummins India Limited**

**Nazneen  
Husain**

Digitally signed by  
Nazneen Husain  
Date: 2020.04.29  
19:54:53 +05'30'

**Nazneen Husain**  
**Segment HR Leader – ITO Human Resource**

Cummins India Limited  
Kohrud, Pune 411038 Maharashtra, India  
Phone +91 20 2538 5435/ 2538 0240  
Fax +91 20 67667015  
[il\\_investors@notes.cummins.com](mailto:il_investors@notes.cummins.com)

GIN : L29112PN1862PL0012278





20<sup>th</sup> October 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Shruti Ramrao Deshmukh** pursuing her M. Tech 2nd year, has successfully completed her project during her internship from 3rd July 2019 to 16<sup>th</sup> March 2020. The project title given to her was **“Simulation methodology using SEA to predict vibroacoustic noise in compressor systems”** at Atlas Copco, GECIA, Hinjawadi, during her internship tenure, under the guidance of Mr. Karan Patil.

**Atlas Copco (India) Ltd.**

**Ketki Shirvalkar**  
**Human Resources Manager**

**Atlas Copco (India) Ltd.**  
Global Engineering Center India Airpower

**Registered Office:**  
Mumbai-Pune Road  
Sveanagar, Dapodi, Pune 411 012.  
Tel.: 91-020-39852100, 39852455, Fax: 91-020-27146038  
Website: [www.atlascopco.com](http://www.atlascopco.com)

**Reply to:**  
Survey No 247/2  
Near YES Bank, Next to Bharat Petrol pump.  
Hinjawadi, Pune-411057  
Fax: +91-20-39804802

Reach us @ 1800 200 0030

**Tuesday, June 30, 2020**

**Sneha Sudhakar Joshi**  
Plot No. 154, Farande Nagar  
Wadi BK, Nanded 431602  
Maharashtra, INDIA

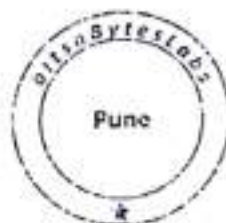

**PROVISIONAL EXPERIENCE LETTER**

This Provisional Experience letter has been issued on the request of employee Sneha Joshi with Employee ID - 1001-192007-I-900014. The letter has been issued on Tuesday June 30, 2020.

**To Whom It May Concern:** This is to Certify that Sneha Sudhakar Joshi, has worked in our organization as internship to job position of Research and Design Engineer in our Product Engineering Group from Monday July 01, 2019 to Tuesday June 30, 2020. We found her sincere, hardworking, and technically sound and result oriented during her tenure.

We take this opportunity to thank her for contribution and wish her success in future endeavors.

Best regards,



**Hemant Vilas Shende**  
Founder, CEO

Goodrich Aerospace Services Pvt. Ltd.  
Netra Tech Park, Old Plot #181, New Plot #40,  
EPIP Industrial Area, Part of Sy #28  
Kundalahalli Village, Krishnarajapuram Hobli,  
Bangalore-560066.  
Tel: +91 80 67380000  
Fax: +91 80 67370005/6  
[www.Collinsaerospace.com](http://www.Collinsaerospace.com)  
CIN: U85110KA1996PTC021327



**Collins Aerospace**

A United Technologies Company

**August 21, 2020**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Gauri Jadhav** has successfully completed her Intern project with Collins Aerospace. She supported the Mechanical Systems team on “Calculating Cd for Oil Flow through Orifice with Metering Pin” project from June 15, 2020 to August 21, 2020 under the guidance of Mr. Mohinder Saini.

We wish her good luck for future.

**for Collins Aerospace**

**Sanjukta Sarkar**  
**Director - Human Resources**

# Certificate Of Completion

This is to certify that

**Samruddhi Jadhav**

has successfully completed online internship in  
Advanced Hybrid Electric Vehicle



*S. Malani*

**Shekhar Malani**

Managing Director,  
DeVise Electronics Pvt. Ltd



**Prof. Dr. Sudarshan Sanap**

HOD, Dept. of Mechanical Engg  
MIT SOE, MIT ADT UNIVERSITY



**Prof. Dr. Kishore Ravande**

Principal,  
MIT SOE, MIT ADT UNIVERSITY



**Date: 26-Aug-2020**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Neeraja Anand Bhide, student of Cummins College of Engineering, Pune has done her project with us from 1-Jun-2020 to 31-Jul-2020.

She has completed her project work in Cummins Technologies India Pvt Limited. The subject of the project is as below:

“Study of Supplier Quality Function work and develop matrix for processes to do Production Part Approval Process (PPAP) of various parts”.

We wish her all the best for all her future endeavors.

For **Global Analytics Center,**  
**A division of Cummins Technologies India Pvt Ltd**

**Shashwat K.  
Mitra**

Digitally signed by Shashwat K.  
Mitra  
Date: 2020.08.27 16:46:12  
+05'30'

**Shashwat K. Mitra**  
**HR Leader-GAC**

Global Analytics Center  
Division of Cummins Technologies India Private Limited  
(Formerly known as Cummins Technologies India Limited)  
Registered Office  
Cummins India Office Campus  
Tower A, 2nd, 4th and 8th Floor, Survey No. 21  
Balewadi, Pune 411 045, Maharashtra, India  
Phone +91 20 67067000, 39651000  
Fax +91 20 67067011/18  
cumminsindia.com  
ctipl@cummins.com

CIN: U29113PN1994FTC139I53



## Genrich Membranes Pvt. Ltd

100, NCL Innovation Park  
Dr Homi Bhabha Road, Pune – 411008, India  
Phone: +91-9172230503 | Fax: +91-20-2586-5879  
Email: [info@genrichmembranes.com](mailto:info@genrichmembranes.com)

### TO WHOMSOEVER IT MAY CONCERN

Date: 30-Jul-2020

This is to certify that Ms. MITALI ULHAS KHARUL, a student of Bachelor of Mechanical Engineering from MKSSS's Cummins College of Engineering for Women, Pune had completed internship successfully during the period of 01-Jun-20 to 15-Jul-2020. Mitali worked on "Study of UF-Membranes and module making".

I found her proactive, very sincere, hardworking, responsible, and methodical. Mitali follows timelines and completes the task well within the timeline. Mitali is a self-starter and needs minimum guidance for the work assigned.

I also would like to thank the institute for referring such a good intern to us.

I wish Mitali all the best for her future.



*Rathod*  
Ms. Arati Rathod  
Sr. Engg., R & D

# CERTIFICATE

OF INTERNSHIP

THIS IS TO CERTIFY

*Shreya Mukesh Bahalkar*

for completing 5 weeks of internship in Energy Management & Conservation with the title of **Performance Analysis of a Refrigeration System** at Internship Studio from 23 June 2020 to 29 July 2020. We wish you all the best for your future endeavours.

Date:-  
3/8/2020



Certificate ID:  
EMA13023



*Pramod Daspute*  
Pramod Daspute  
Instructor & Mentor

*Aniket Maheshwari*  
Aniket Maheshwari  
Founder & CEO



INTERNSHIPSTUDIO

# CERTIFICATE

OF INTERNSHIP

---

THIS IS TO CERTIFY

*Shreya Mukesh Bahalkar*

---

for completing 5 weeks of internship in Excel Automation with the title of **Multi Region Sales Analysis Dashboard** at Internship Studio from 23 June 2020 to 29 July 2020. We wish you all the best for your future endeavours.

*Ashok Sindkar*

Ashok Sindkar  
Instructor & Mentor

*Aniket Maheshwari*

Aniket Maheshwari  
Founder & CEO

Date:-  
3/8/2020

Certificate ID:  
EA12019





Inspiring and empowering  
future professionals

# KIRAN RASKAR

## Data Analytics Consulting Virtual Internship

Certificate of Completion  
June 29th, 2020

Over the period of June 2020, KIRAN RASKAR has completed practical task modules in:

Data Quality Assessment  
Data Insights  
Data Insights and Presentation

**Deborah Yates**  
National Managing  
Partner People  
Performance and  
Culture

**Tom Brunskill**  
CEO, Co-Founder of  
InsideSherpa

**Date: 30/03/2021**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Savani Vidyadhar Prabhune** has successfully completed her internship at **R2A AUTOMATION**. The starting date of the internship was March 1, 2020 and the end date was June 4, 2020.

She worked on following assignments and completed them successfully.

1. Design of Gauge for measuring the beam bend.
2. Calculations for Beam Deflections for the beams of different materials.

We wish her all success in his future endeavor.

**Shirish Dixit,**

**Director,  
R2A AUTOMATION PVT.LTD.  
Gat 69,Shindewadi,  
Tal:Bhor.Dist Pune**



Ref : VCE/eCoC/1940

**SAKSHI BABARAM SALVI**

**Cummins College of Engineering for Women,  
Pune.**

Dear SAKSHI BABARAM SALVI,

This email is to inform you that you have successfully completed virtual (online) summer internship in our organization in the duration **19 July 2020 to 2 Sep 2020.**

The task and the report submitted by you on your project "**Solar PV – Simulation and Designing**" was satisfactorily good.

We wish you all the best in your life.

Warm Regards

**Neha Kumari**

*Sr. Manager - HR & Admin*



Vardhan Consulting Engineers

**Vardhan Consulting Engineers**

Engineering and Management Consulting

+66 972 151 276, <https://techvardhan.com>



## Dielectric and Emissive Properties of Sorghum (Jowar) Vegetation at C-Band Microwave Frequency

Ashish B. Itolikar <sup>a</sup>  , A.S. Joshi <sup>b</sup>, S.S. Deshpande <sup>c</sup>, V.M. Arole <sup>a</sup>, M.L. Kurtadikar <sup>d</sup>

<sup>a</sup> Department of Applied Science, MGM'S Jawaharlal Nehru Engineering College, Aurangabad, 431003, Maharashtra, India

<sup>b</sup> Department of Applied Science, MKSSS'S Cummins College of Engineering for Women, Karvenagar, Pune, 411052, Maharashtra, India

<sup>c</sup> Department of Physics, R. I. G. College, Jalna, 431203, Maharashtra, India

<sup>d</sup> P.G.Department of Physics, J.E.S. College, Jalna, 431203, Maharashtra, India

Available online 12 March 2020, Version of Record 12 March 2020.

Show less 

 Outline |  Share  Cite

<https://doi.org/10.1016/j.matpr.2020.02.022>

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### Abstract

Microwave interaction with earth resources like soil and vegetation provides useful information for remote sensing techniques. Such interaction is mainly governed by a complex dielectric property of target material. This paper reports on laboratory measurements of complex dielectric constant of sorghum vegetation (leaves) at room temperature (30°C) at C-Band microwave frequency. Von Hippel (shorted waveguide) method is used to conduct the measurements. The measurements were performed for freshly cut sorghum leaves as a function of moisture content by using automated C-Band microwave bench set up with movable reflector. The least square fitting technique is used to calculate dielectric constant ( $\epsilon'$ ), dielectric loss ( $\epsilon''$ ) and errors in their measurements. Emissivity and radiometric brightness temperature is estimated from measured dielectric properties at different angle of incidence for dry and moist sorghum leaves using Fresnel equations. This study is useful for interpretation of microwave remote sensing of vegetation and applications specifically in agriculture

 Previous

Next 

### Keywords

Sorghum vegetation; Dielectric constant; Microwave remote sensing; Emissivity

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[Identification of Fibre Content in Edible Flours Using Microwave Dielectric Cell: Concise Review and Experimental Insights](#)

2022, Materials

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Conduction pathways and mixed ionic-electronic conductivity below 500 °C in  $\text{Ca}_x\text{Y}_{3-x}\text{Fe}_5\text{O}_{12-\delta}$  materials

Dnyaneshwar R. Bhosale and Shankar I. Patil  
 Phys. Rev. Materials **3**, 095007 – Published 27 September 2019

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**ABSTRACT**

**AUTHORS**

**ARTICLE TEXT**

- [INTRODUCTION](#)  
[EXPERIMENTAL](#)  
[RESULTS AND DISCUSSION](#)  
[CONCLUSIONS](#)  
[ACKNOWLEDGMENTS](#)

**SUPPLEMENTAL MATERIAL**

**REFERENCES**

**ABSTRACT**

Mixed ionic-electronic conducting cathode material plays an important role in the operation of efficient low-temperature solid oxide fuel cells (LT-SOFCs). In the present study, we address the issue of achieving ionic conduction pathways and high mixed ionic-electronic conductivity below 500 °C in cathode materials for LT-SOFC technology. We report high mixed ionic-electronic conductivity in the low temperature range ( $\sim 10^1 - 10^3 \text{ S cm}^{-1}$  at 350–500 °C) in the calcium-substituted yttrium iron garnets  $\text{Ca}_x\text{Y}_{3-x}\text{Fe}_5\text{O}_{12-\delta}$  ( $x = 0.15$ ). Oxide ion conduction is governed by an oxygen vacancy concentration mechanism presented here by soft bond valence sum distribution analysis of experimental neutron diffraction data up to 450 °C. The continuous minimum energy conduction pathways for oxide ions in the (100) plane have been visualized by soft bond valence sum analysis. The electronic conduction in present garnets occurs due to hopping of holes from  $\text{Fe}^{4+}$  to  $\text{Fe}^{3+}$  chemical states confirmed by Mössbauer spectroscopy. Importantly, the studied materials are found to be thermodynamically stable at least up to high temperatures of 800 °C, which supports well to frequent thermal cycles in SOFC devices. Another important parameter, viz. the thermal expansion coefficient, is found to be comparable with that for the conventionally used anode, electrolyte, and interconnect materials. On the basis of this study, we conclude that the present cathode materials would be useful for an efficient LT- SOFC technology.



[1 More](#)

Received 19 April 2019

DOI: <https://doi.org/10.1103/PhysRevMaterials.3.095007>

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Physics Subject Headings (PhySH)

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Research Areas

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## *Certificate of Skilling*

THIS CERTIFICATE IS AWARDED TO

*Chanchal Choudhary*

**Cummins College of Engineering, Pune**

in appreciation of the IoT skilling program completed at IoTIoT.in  
from : 20th February 2020 to 15th April 2020

### **Skills developed during the program include :**

#### **Professional Tools :**

- Git workflow & Gitlab
- Coding style
- Markdown doc format
- Docker basics

#### **Programming Languages :**

- Linux bash shell
- C programming
- Micro-processor interface programming (GPIO, UART, SPI, I2C)

#### **IoT Protocols :**

- HTTP
- CoAP
- MQTT(hands-on)
- LWM2M
- AMQP

**Nikhil Bhaskaran**  
Founder IoTIoT.in

Skilling for this student was fully sponsored by IoTIoT.in based on merit



**To whomsoever it may concern**

This is to certify that Gayatri Gokul Amrutkar of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Assigning AutoCategory for Search terms using Machine Learning (ML)
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Sandeep Jahagirdar
Guide Name	Ripunjay Sharma
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com

01 August 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Tahiti Dey, a student of B. Tech. Electronics and Telecommunication), MKSSS's Cummins College of Engineering for Women, Pune has successfully completed an internship program at AlgoAsylum from 2<sup>nd</sup> May 2020 to 31<sup>th</sup> July 2020. During this period of her internship program, her performance was found to be satisfactory.

We wish her success in all her future endeavors

Sincerely,

SHRIRANG K. KARANDIKAR,

Founder and CEO,

AlgoAsylum



**CLOUD COUNSELAGE PVT. LTD.**  
IT & Management Consulting Services

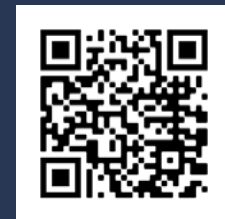


## EXPERIENCE LETTER

This is to certify that **Dipannita Banerjee** was engaged with us as a 'Technical Intern' over the months of March, June, and July 2020 and has successfully completed the project work in Data Science.

**Dipannita Banerjee** was sincere and dedicated during the internship.

Best Regards,  
**Tushar Topale**  
Founder & CVO



This is a computer-generated document. Signature is not required. Scan the QR Code for background verification.



June 11, 2020

**To Whom It May Concern**

**EXPERIENCE CERTIFICATE**

This is to certify that **Mahika Sowale (EE ID 104891)** has done internship at Mastercard Technology Private Limited from May 4, 2020 to May 29, 2020 on **Operations and Technology** under the guidance of **Venkata Pinnamaneni**.

We take this opportunity to thank her and wish her all the best for her future endeavors.

Yours faithfully,

A handwritten signature in blue ink, which appears to be "D.A. Singh", is written over a vertical line. To the right of the line is a circular official stamp in purple ink. The stamp contains the text "PUNE" in the center and "MASTER CARD" around the perimeter.

For: Mastercard Technology Private Limited  
People.services@mastercard.com  
Global Business Services Center - HR Services

**Mastercard Technology Private Limited** Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006

Formerly known as ElectraCard Services Private Limited  
CIN - U72200PN2000PTC014585



June 11, 2020

**To Whom It May Concern**

**EXPERIENCE CERTIFICATE**

This is to certify that **Apurva Padwal (EE ID 104902)** has done internship at Mastercard Technology Private Limited from May 4, 2020 to May 29, 2020 on **Operations and Technology** under the guidance of **Lakshminarasimhan Srinivasan**.

We take this opportunity to thank her and wish her all the best for her future endeavors.

Yours faithfully,

A handwritten signature in blue ink, which appears to be "D.A. Singh", is written over a vertical line. To the right of the line is a circular official stamp in purple ink, containing the text "PUNE" and other illegible details.

For: Mastercard Technology Private Limited  
People.services@mastercard.com  
Global Business Services Center - HR Services

**Mastercard Technology Private Limited** Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006

Formerly known as ElectraCard Services Private Limited  
CIN - U72200PN2000PTC014585

Date: 07/10/2019

No: IOC-07102019-1

To,  
The Head of Department,  
Electronics & Telecommunications Department,  
Cummins College of Engineering for Women,  
Pune-52.

Internal Guide: Ms. Padma Hirase

**SUBJECT:** Confirmation of Sponsorship for BE Project.

Dear Madam,

As per your letter Ref. no: / / Dated: 20/09/2019, ioCare, Pune agrees to sponsor final year Project Data Analytics in Home Automation with Security of students namely

- |                          |        |
|--------------------------|--------|
| 1) Ms. Sarkar Didhiti    | (4162) |
| 2) Ms. Khandelwal Khyati | (4139) |
| 3) Ms. Joshi Janhavi     | (4133) |

from Electronics & Telecommunications Engineering Department, Cummins College of Engineering for Women, Pune, of Savitribai Phule Pune University. This sponsorship includes the costing of project components & manufacturing of prototype and required technical guidance throughout the project and internship for academic year 2019-2020.

This sponsorship will be beginning on 27 September 2019 to 31 March 2020. Hereby according to our company's policy, students need to submit the prototype back to our company after their project completion. All the Hardware and Software designs should be kept strictly confidential and should be shared outside company. Students also needs to submit the one copy of Report. If required direct all invoices to: Email: [research@iocare.in](mailto:research@iocare.in)

Thanking you!

*Rajendra*

Yours Sincerely  
Rajendra Khope,  
CEO & Founder  
ioCare, Pune  
Email: [research@iocare.in](mailto:research@iocare.in)





Grp. no.: 10

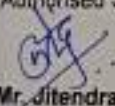
Recd. on  
18-1-2020  
thru. Mr. V.P. Shinde a

To,  
H.O.D., Dept. of E&TC.,  
CUMMINS COLLEGE OF ENGG. FOR WOMEN  
KARVENAGAR, PUNE-411052

04-12-2019

- 1) Mode of Sponsorship: - **FINANCIAL AND TECHNICAL GUIDANCE**
- 2) **CONSENT** to take the project **OUTSIDE** the company's premises at the time of EXAM OR any other PROJECT COMPETITION - Yes. Cummins College of Engineering to be beneficiary of the project outcome/solution. The research / product should not be used for any personal commercial gains by the students.  
The project outcome/solution will be deployed in the Cummins manufacturing plants in India.
- 3) Full names & Roll nos. of the students:  
Shweta Ravindra Dindore 4115  
Ruchita Ravindra Gholap 4123  
Bhavana Gorakshnath Vetal 4171
- 4) Name of the Project: **Industrial Orientation Programme- Plant Tour guide Audio Aid.**
- 5) Subject-area of the Project: **Speech Processing**
- 6) Nature of the Project: **Hardware and Software**
- 7) Name of the GUIDE in the company:  
Guide 1: **Sumant Kshirsagar**  
NPD - Service Tools Leader  
Guide 2: **Suyog Gunjal**  
Electronic Systems Technical Specialist

Authorised Signatory

  
Mr. Jitendra J Paturkar

General Manager, Human Resources

Cummins Business Services

Division of Cummins Technologies India Pvt. Ltd

Cummins Business Services  
Division of Cummins Technologies India Private Limited  
Formerly known as Cummins Technologies India Limited  
Registered Office  
Cummins India Office Campus  
Tower A, 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> Floor  
Survey No. 21, Balewadi  
Pune 411 045 Maharashtra, India  
Phone +91 20 67067000, 36661000  
Fax +91 20 67067001 1/12/14/18  
cumminsindia.com  
ctip@cummins.com

 **TWINTECH**  
An ISO 9001:2015 Company

**TWINTECH CONTROL SYSTEMS PVT. LTD.**  
Electronic Process Control Equipment Manufacturer

To,  
The H.O.D.  
Dept. of ENTC  
CUMMINS COLLEGE OF ENGG. FOR WOMEN  
KARVENAGAR, PUNE -411052

Respected Madam,

This is with regard to the B Tech project offered to the below mentioned students of your college. I am pleased to mention that our company is offering the financial and technical guidance for the same.

The necessary details are mentioned below

1. Mode of Sponsorship: Both Financial and Technical Support
2. Full names & Roll no's of the students: 1. Anagha Deogonkar (4821)  
2. Vashnavi Thite (4869)  
3. Snehal Shinde (4884)
3. Name of the project: PCB Component Detection by Image Processing.
4. Subject-area of the Project: Image Processing.
5. Nature of the Project: Hardware and Software.
6. Name of the GUIDE in the company: Shounak Sharangpani
7. They are allowed to take the project OUTSIDE the company's premises at the time of EXAM or any other project competition.
8. The project, hardware, software or any other mechanical or electrical design shall be the sole property of Twintech Control Systems Pvt Ltd.

Thanking you,  
Yours Sincerely



Shounak Sharangpani  
(Director)  
Twintech Control Systems Pvt Ltd.

---

4, Vashwaganga Complex, Anand Nagar, Sinhgad Road, Pune - 411 051 | Tel: 020 - 24355944, 020 - 24355599  
Website: [www.twintechcontrols.com](http://www.twintechcontrols.com) | E-mail: [sales@twintechcontrols.com](mailto:sales@twintechcontrols.com), [twintechindia@gmail.com](mailto:twintechindia@gmail.com)  
CIN: U31909PN1990PTC058883 | GSTIN: 27AAACT6830C1Z

Completion Certificate

Tel : 020-24103479  
Fax : 020-24381004



Website : www.cwprs.gov.in  
E-mail : wapis.mah@nic.in

2019-20  
group no  
15

Government of India  
Ministry of Jal Shakti  
Department of Water Resources, River Development and Ganga Rejuvenation  
**CENTRAL WATER AND POWER RESEARCH STATION**  
Pune, Maharashtra, India

Division: Coastal Field Instrumentation

Date: 21 / 09 / 2020

**CERTIFICATE**

This is to certify that **Ms. Apurva Amritkar, Aishwarya Bapat, Tripti Chanda and Heeral Kabra** have completed their final year B.E. project successfully in the discipline of **Electronics and Telecommunication Engineering** from "**Central Water And Power Research Station**", Khadakwasla, Pune for a period of **nine months w.e.f September 2019 to June 2020.**

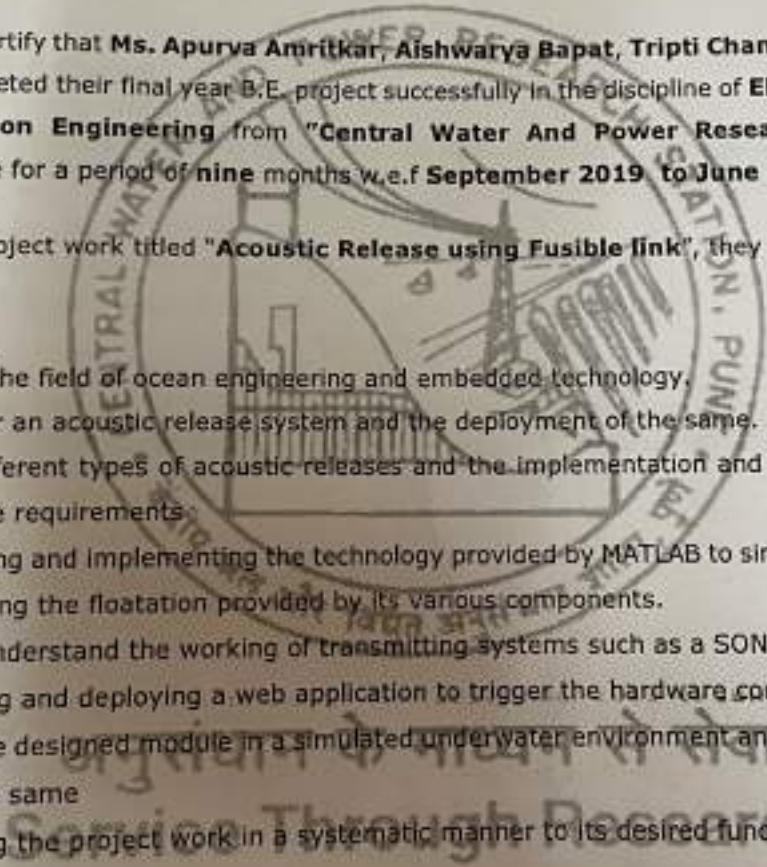
During the project work titled "**Acoustic Release using Fusible link**", they have got hands on experience in:

- Working in the field of ocean engineering and embedded technology.
- The need for an acoustic release system and the deployment of the same.
- Study of different types of acoustic releases and the implementation and selection of one based on the requirements.
- Understanding and implementing the technology provided by MATLAB to simulate a mooring and calculating the floatation provided by its various components.
- Study and understand the working of transmitting systems such as a SONAR transponder.
- Implementing and deploying a web application to trigger the hardware components.
- Testing of the designed module in a simulated underwater environment and interpreting the results of the same
- Implementing the project work in a systematic manner to its desired function.

During their tenure, we found them to be hard working and efficient in carrying out their responsibilities. We wish them very best of luck for their future.

*GVR* 21/09/2020

**(G V Ramana Rao)**  
**Scientist-D**



SPONSORSHIP LETTER

Mrs Anamika Mishra  
2019-20  
B. div.

To,

The H.O.D.  
Dept. of E&TC  
CUMMINS COLLEGE OF ENGG. FOR WOMEN  
KARVENAGAR, PUNE-411052

Respected Madam,

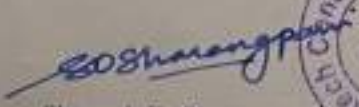
This is with regard to the B Tech project offered to the below mentioned students of your college. I am pleased to mention that our company is offering them financial and technical guidance for the same.

The necessary details are mentioned below:

1. Mode of Sponsorship: Both financial and Technical Support
2. Full names & Roll no's of the students :-
  1. Anshu Priya(4204)
  2. Nikita Suri (4249)
  3. Arti Shinde (4267)
3. Name of the Project: Engine Control Unit
4. Subject-area of the Project: Automotive, Networking, Embedded and Control Systems
5. Nature of the Project: Hardware & Software
6. Name of the GUIDE in the company: Shounak Sarangpani
7. They are also allowed to take the project OUTSIDE the company's premises at the time of EXAM OR any other PROJECT COMPETITION.
8. The project, hardware, software or any other mechanical or electrical design shall be the sole property of Twintech Control Systems Pvt Ltd.

Thanking You,

Yours Sincerely

  
Shounak D. Sarangpani  
(Director)

Twintech Control Systems Pvt Ltd.





Int. guide: Dr. A. Patil.

Date: 28 Nov 2019.

To  
The Director,  
MKSSS's Cummins College of Engineering, Pune  
Pune - 411052

**Subject: Final Year B.Tech Project Sponsorship Letter**

Dear Madam,

We the Emprotek Software Solutions Pvt. Ltd. are an embedded electronics company involved in developing new embedded products and tools. Following group of students has been selected by us to work on an on-going project in the domain of Bio-medical Electronics title of the project being "Portable and compact ECG machine". The project is a market requirement according to market survey and we felt that it would give the students a great exposure to the market.

The following students of Group No.20 are working on the project:

1. Simran Kulkarni 4238
2. Sapna Lanke 4231
3. Unnati Khandare Roll no - 4238

Following are the terms and conditions of the company:

- i. During or after the commitment with EMPROTEK, Students of Group No 20 are not supposed to disclose any confidential information.
- ii. All the Intellectual Property rights are with EMPROTEK Software Solutions Pvt Ltd. Students OR MKSSS's Cummins College Of Engineering can not claim OR File any patents related to this project. The outcome / result of this project is Intellectual Property of EMPROTEK Software Solutions Pvt Ltd.
- iii. Students will work from their sites.

**Emprotek Software Solutions Pvt. Ltd.**

Registered Address: 16A/2 FL, No 8, "Bhavarth", Swapnamandir Society,  
Patwardhan Baug, Erandawana, Pune - 411 004, Maharashtra, India  
(CIN - U72900PN2015PTC157553)

# Task Consultants

Management & Engineering Consultancy

Group No: 35  
Internal Guide: Prof. Harave

Date: 15/11/2019

Ref: Task/SProj/191101

To,

Project Coordinator,  
Electronics & Telecommunication Department,  
Cummins College of Engineering, KarveNagar,  
Pune 411052

Sub: Technical Sponsorship for project of final year B.Tech students

Dear Sir/Madam,

We are pleased to inform you that, following students of your department, will work on academic project

**"Automatic detection of Polyp & Tissue Texture Recognition of Colonoscopic images of IBD patient"**

Name of the students working on this title are,

1. Shruti Vikas Tol (Tel Number 9404901803) - 4273
2. Ruta Jayant Kulkarni (Tel Number 8329319945) - 4240
3. Tanvi Rajendra Pardhi (Tel Number 8390702506) - 4253
4. Kanchan Waghchawre (Tel Number 8329291858) - 4275

They will work independently using suitable software platform and will submit complete code to us with no reproduction or backup of generated code at the end of their working.

This letter is for your information and update,

Regards



Prasad Sudhakar Tasgaonkar  
Partner, Task Consultants



To,

H.O.D., Dept. of E&TC.,  
CUMMINS COLLEGE OF ENGG. FOR WOMEN  
KARVENAGAR, PUNE-411052

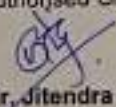
Year: B.Tech (2019-2020)  
Group No. (37)  
Int Guide: Dr. N. G. Palan.

Recd. on  
13-1-2020  
thru. Mrs. Rajwade

04-12-2019

- 1) Mode of Sponsorship: - **FINANCIAL AND TECHNICAL GUIDANCE**
- 2) **CONSENT** to take the project **OUTSIDE** the company's premises at the time of EXAM OR any other PROJECT COMPETITION - **Yes. Cummins College of Engineering to be beneficiary of the project outcome/solution. The research / product should not be used for any personal commercial gains by the students. The project outcome/solution will be deployed in the Cummins manufacturing plants in India.**
- 3) Full names & Roll nos. of the students:  
Kajal Makheja      4243  
Shivani Nagvekar      4246  
Vinaya Naik      4247
- 4) Name of the Project: **Industrial Orientation Programme - Plant Tour guide Audio Aid.**
- 5) Subject-area of the Project: **Speech Processing**
- 6) Nature of the Project: **Hardware and Software**
- 7) Name of the GUIDE in the company:  
Guide 1: **Koushal S Mandavgane,**  
**ELECTRONIC CONTROLS - GROUP LEADER**  
Guide 2: **Vilas Nagara]**  
**Electronic Controls - Technical Specialist**

Authorised Signatory

  
Mr. Jitendra J Paturkar  
General Manager, Human Resources

Cummins Business Services

Division of Cummins Technologies India Pvt. Ltd

Cummins Business Services  
Division of Cummins Technologies India Private Limited  
(Formerly known as Cummins Technologies India Limited)  
Registered Office  
Cummins India Office Campus  
Tower A, 2<sup>nd</sup>, 4<sup>th</sup> and 8<sup>th</sup> Floor  
Survey No. 21, Balewad  
Pune 411 045 Maharashtra, India  
Phone +91 20 67067000, 38661000  
Fax +91 20 67067011/12/14/18  
cumminsindia.com  
cc@cummins.com

grp. no. - 78

संदर्भ संख्या/Ref No.: PN/18629/16/  
तिथि/Date: 15.08.2019

To,  
Cummins College of Engineering for Women  
Karve Nagar,  
Pune - 411 052

Proj. Grp.no.: - 65  
भारत इलेक्ट्रॉनिक्स  
BHARAT ELECTRONICS  
Recd. on 15-8-19

भारत इलेक्ट्रॉनिक्स लिमिटेड

(भारत सरकार का उद्यम, रक्षा मंत्रालय)  
एन. डी. ए. रोड, पश्चिम, पुणे - 411021 - भारत.  
**BHARAT ELECTRONICS LIMITED**

(A Govt. of India Enterprise, Ministry of Defence)

INDIA ROAD, PASHAN, PUNE 411 021 India

☎ : 091-20-2290 3000

Fax : 091-20-2290 3313, 2588 5729, 2588 5708

GENERAL MMD MKTG

विषय : बी. टेक ई. अँड टी. सी. के लिए प्रकल्प / इंडस्ट्रियल ट्रेनिंग  
SUB : Project/ Industrial Training/ Summer Internship for B. Tech. (E & TC)

Dear Sir / महोदय,

1. कु. अपूर्वा कुलकर्णी, कु. प्रियांका शाह, कु. अपूर्वा राव छात्र बी. टेक. ई. अँड टी. सी. प्रबंध परियोजना / इंडस्ट्रियल ट्रेनिंग/ प्रैक्टिस स्कूल कार्य के लिए अनुमति के संबंध में दिनांकित 13.08.2019 आपका पत्र प्राप्त हुआ।  
This has reference to your Letter dtd. 13.08.2019 in connection with permission for Industrial Training/ Project Work/Practice School to Ms Apurva Kulkarni, Ms Priyanka Shah, Ms Apoorva Rao student of B. Tech. (Electronics and Telecommunication).
2. आपको यह सूचित करते हुए खुशी हो रही है, प्रकल्प प्रशिक्षण के लिए आवश्यक अनुमति उपर्युक्त छात्र को दी जाती है।  
In this regard, we are pleased to inform you that the necessary permission for project training is granted to the above-mentioned students.
3. छात्र श्री आर. वाय. चौधरी, वरिष्ठ उपमहाप्रबंधक, डी अँड ई विभाग को रिपोर्ट कर सकते हैं।  
Student may report to Shri R. Y. Chaudhari, Sr. Dy. General Manager, D & E Department.
4. प्रकल्प की अवधि 19 अगस्त 2019 से 31 मार्च 2020 (समय 9.30 से 16.30) रहेगी।  
Period of the project will be from 19<sup>th</sup> August 2019 to 31<sup>st</sup> March 2020 (Timing 9.30 to 16.30).
5. उपरोक्त प्रशिक्षण की अवधि के दौरान कंपनी किसी भी परिवहन सुविधा उपलब्ध नहीं करेगा।  
During the period of the above training, the Company will not provide any transport facility.
6. बाहरी मूल्यांकन कर्ता की अनुमति नहीं दी जाएगी।  
No outside evaluator will be allowed inside the premises.
7. प्रशिक्षण/ प्रकल्प के दौरान कोई वजीफा नहीं भुगतान किया जाएगा।  
No stipend will be paid during the in plant Training/Project.
8. छात्र प्रशिक्षण/परियोजना कार्य के लिए केवल कॉलेज वर्दी या औपचारिक पोशाक पहन सकते हैं। (सफेद टॉप और काला बॉटम) Student is expected to report for Training/Project work in his/her College Uniform only. In case college has not prescribed uniform, student may wear formal attire (White top & Black bottom).
9. छात्र को शामिल होने के दिन पहचान पत्र के लिए दो फोटो लाने हैं।  
Student to bring 2 (Two) Photographs for Identity Card on the day of Joining.

आपको धन्यवाद/ Thanking you,

भवदीय/ Yours Sincerely,

शशि का 3  
2019

अधिकारी (मानव संसाधन)/OFFICER (HR)

- सीसी:
1. अपर महाप्रबंधक (डी अँड ई) / AGM (D&E)
  3. सुरक्षा अधिकारी/SECURITY OFFICER

2. वरि. उमप्र (डी अँड ई) /Sr.DGM (D&E)
4. कैटीन/ IC CANTEEN

पंजीकृत और सामूहिक कार्यालय : आउटर रिंग रोड, नागवारा, बंगलूरु - 560 045 भारत.  
Reg. & Corporate Office : Outer Ring Road, Nagavara, Bangalore - 560 045, India.  
☎ : 91 80 2503 9300 Fax : 91 80 2503 9305 Website : <http://www.bel-india.com>

ISO 9001 and ISO 14001 Certified Company

9914 041 004 135

**AP Energy Solutions**

Shop no. 7, Shree Siddhivinayak Manasvi, Ambegaon BK, Pune - 411 046

Mob No.: +919822018331.

Email Id: apenergy3@gmail.com

To,  
H.O.D.,  
Dept. of E&TC.,  
Cummins College of Engg. For Women,  
Karvenagar, Pune-411052.

- 1) **Mode of Sponsorship:** - Financial and Technical Guidance.
- 2) **CONSENT** to take the project **OUTSIDE** the company's premises at the time of **EXAM OR any other PROJECT COMPETITION** - Yes.
- 3) **Full names & Roll nos. Of the students.**

Badhe Snehal Ashok	4103
Gunjal Priyanka Pandurang	4125
Pokharkar Priyanka Balasaheb	4158
- 4) **Name of the Project** - Multi Crop Thresher Machine.
- 5) **Subject-area of the Project** - Mechatronics ( Social Impact Project).
- 6) **Nature of the Project** - Hardware & Software.
- 7) **Name of the GUIDE in the company** - Mr. Anil Sahasrabudhe.



A handwritten signature in blue ink, appearing to read "Prasanna Pardeshi".

Mr. Prasanna Pardeshi  
CEO,  
AP Energy solutions.

grp. no. - 78

2019-20

### Sponsorship Letter

To,  
Dr. Prachi Mukherjee  
H.O.D., Department of E&TC,  
Cummins College of Engineering for Women,  
Karve Nagar, Pune-411052.

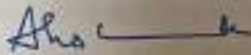
Respected Ma'am,

I wish to inform you about the details of the sponsored project.

- 1) Mode of Sponsorship : FINANCIAL AND TECHNICAL GUIDANCE
- 2) CONSENT to take the project OUTSIDE the company's premises at the time of EXAM OR any other PROJECT COMPETITION - Yes
- 3) Full names & Roll nos. of the students :

Shraddha Vibhandik	4172
Dhanashree Bajoriya	4104
Akansha Dakre	4213
Sonali Jeswani	4230
- 4) Name of the Project : Methodology for Rapid prototyping of IoT and Cloud
- 5) Subject-area of the Project : Embedded System , Cloud Computing and Networking
- 6) Nature of the Project : Hardware & Software
- 7) Name of the GUIDE in the company : Dr. Shrirang Karandikar

With Best regards,



Shrirang K, Karandikar, PhD

AlgoAsylum

Telephone - (91) (020) 27044200  
(91) (020) 27044208  
Fax - (91) (020) 27044202  
(91) (020) 27044010  
E-mail - imsg@rde.drdo.in



भारत सरकार, रक्षा मंत्रालय,  
Government of India, Ministry of Defence,  
रक्षा अनुसंधान तथा विकास स्थापन,  
Defence Research & Development Organisation,  
अनुसंधान तथा विकास स्थापन (इंजीनियर्स),  
Research & Development Establishment (Engineers),  
कलस, आलंदी रोड, दिघी पो.ऑ., पुणे - 411015, भारत  
Kalas, Alandi Road, Dighi P.O., Pune-411 015, INDIA

RDE\90008/A/IMSG

Date: 22 Jul 2019

To  
The Principal  
MKSSS's Cummins College of Engineering for Women,  
Karvenagar, Pune -411052.

Dear Madam/Sir,

Subject:- PERMISSION FOR STUDENT PROJECT

**Kind Attn:** Mr M.P. Deore, Co-Coordinator, Dept of Computer Engg.

Reference: - Letter No. Nil, Dated 14 Jun 2019.

1. I am pleased to inform you that following Student has been granted permission to do Student Project work at this establishment **from 04 Aug 2019- 04 Apr 2020 :-**

Name of the student(s)	Subject	Guide from establishment & Title of the Project	Guide from College
i) Ms Rutuja Bhamare ii) Ms Yashshree Deshpande iii) Ms Sneha Giranje iv) Ms Sakshi Chougule	B. Tech (Computer)	Ms Thakur Magoch Nirja, Sc 'E' Robotics: Remote Control and Human Machine for an Unmanned Surface Vehicle (USV).	—

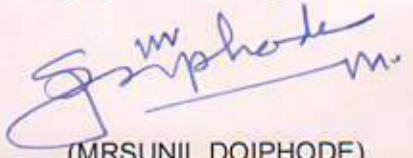
2. It is expected that the student will observe the normal rules contained therein to maintain discipline.

3. After completion of project work, it may please be ensured that **one hard copy+ one soft copy** of Student Project report be submitted to KIITM Group. The design/model developed by the student will be given to them for presentation at the time of examination. However, after the examination, this establishment will retain the models.

4. **Kindly note that the Students will not be granted stipend, TA/DA, lodging and boarding facility etc.**

5. Please acknowledge receipt of this letter.

With regards,

  
(MRSUNIL DOIPHODE)  
Sc 'E'

For DIRECTOR

Copy to:

1. Ms Thakur Magoch Nirja, Sc 'E'  
(through GD Robotics)

**:Please ensure that :-**

(a) Project Completion Certificate is signed by GDIMSG (HRD Coordinator) & Guide from Estt.

(b) Soft Copy of Project Report be submitted online to ICTG and Hard Copy to TIC under intimation to this Group.

2. Head TIC

: for info & n.a.pl.

MKSS's Cummins College of Engg. for Women	
Inward No.:	1226
Date:	3-5-8-2019

To  
HOD Comp  
my



**Optimum Data Analytics**

**Connecting Dots... Discovering Patterns!!!**

**Optimum Data Analytics Pvt. Ltd.**

Pune, India

CIN: **U72900PN2017PTC168231**

Contact: [admin@odaml.com](mailto:admin@odaml.com)

**Date: 18.09.2019**

**To,**

**Prof. Dr. Supriya Kelkar**

Head, Department of Computer Science,

MKSSS'S Cummins College of Engineering for Women, Pune

Karve Nagar, Pune - 411052

**Subject:** Permission for internship

Dear Madam,

We are pleased to inform you that following students have been granted permission to do Student Project at this organization from 18 September 2019 to 28 April 2020.

<b>Name of Student(s)</b>	<b>Subject</b>	<b>Title of the Project</b>	<b>Guides from College</b>
Resham Girish Lunkad Shivani Vishnu Shinde Shivani Pradeepsingh Thakur Shruti Kamalakar Umbarkar	Computer Science	Predictive Maintenance in Manufacturing Sector using IoT Data	Dr. Shilpa Deshpande, Dr. Shubhangi Tikhe

A guide is allotted at our end to these students for any queries and it is expected that the students will observe the normal rules to maintain discipline.

After completion of the project work, it may please be ensured that one soft copy of the project report be submitted to Optimum Data Analytics.

Kindly note that the student(s) will not be given stipend, TA/DA, lodging and boarding facility.

**Rutuja Udyawar**

**Director and Founder**

**Optimum Data Analytics**







संगणक विज्ञान एवं अभियांत्रिकी विभाग  
भारतीय प्रौद्योगिकी संस्थान मुंबई  
पॉव, मुंबई-400 076, भारत

Department of  
Computer Science and Engineering  
Indian Institute of Technology Bombay  
Powai, Mumbai-400 076, India



Tel : (+91-22) 2576 7901  
(+91-22) 2576 7902  
Fax : (+91-22) 2572 0022  
Email : office@cse.iitb.ac.in  
Website : www.cse.iitb.ac.in



Uday P. Khedker  
Professor

email : [uday@cse.iitb.ac.in](mailto:uday@cse.iitb.ac.in)  
url : <http://www.cse.iitb.ac.in/~uday>  
phone : +91 222576 7717

19 Sep 2020

### TO WHOM IT MAY CONCERN

This is to certify that the following students of B.Tech (Computer) from Cummins College of Engineering for Women, Pune have completed the B.Tech. project titled "Extending scip by introducing SSA based Optimizations" from 1 Aug 2019 to 1 Sep 2020 under my guidance and supervision.

Manali Sandip Wani (C22016221235)

Nicky Haresh Nagdev (C22016221249)

Samruddhi Abhay Hardas (C22016221230)

Prof. Uday Khedker



संगणक विज्ञान एवं अभियांत्रिकी विभाग  
भारतीय प्रौद्योगिकी संस्थान मुंबई  
पवई, मुंबई-400 076, भारत



**Department of  
Computer Science and Engineering**  
Indian Institute of Technology Bombay  
Powai, Mumbai-400 076, India

Tel : (+91-22) 2576 7901  
(+91-22) 2576 7902  
Fax : (+91-22) 2572 0022  
Email : office@cse.iitb.ac.in  
Website : www.cse.iitb.ac.in



**Uday P. Khedker**  
Professor

email : [uday@cse.iitb.ac.in](mailto:uday@cse.iitb.ac.in)  
url : <http://www.cse.iitb.ac.in/~uday>  
phone : + 91 222576 7717

19 Sep 2020

## TO WHOM IT MAY CONCERN

This is to certify that the following students of B.Tech. (Computer) from Cummins College of Engineering for Women, Pune have completed the B.Tech. project titled "Extending scip (Language Processor for Small C Like Language) for New Language Features" from 1 Aug 2019 to 1 Sep 2020 under my guidance and supervision.

Mansi Shinde (C22016221287)  
Simran Moondra (C22015221266)  
Aditi Sathiyapalan (C22016221264)  
Sejal Shroff (C22016221263)

Prof. Uday Khedker



## Project Completion Certificate

Date: 26/04/2020

### TO WHOM IT MAY CONCERN

This is to certify that **Mitali Chaudhari** , **Madhumita Chatne**, **Sanika Dhawale** and **Shravani Gore**, students of MKSSS Cummins College of Engineering have successfully completed the sponsored project **Co-Study Space (A virtual study platform)** with **Open Infotech**. During the period of project completion with us, they were found punctual, hardworking and inquisitive.

We wish them every success in life.

A handwritten signature in black ink, appearing to read "Vikram Ghadge", is positioned above the printed name.

Mr. Vikram Ghadge,  
Open Infotech  
Place: Pune



# CERTIFICATE OF PARTICIPATION

**SOHA PARASNIS**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **KMIP JAVA CLIENT SDK - TO CREATE  
OPEN SOURCE, SCALABLE JAVA LIBRARY** UNDER THE GLOBAL REMOTE MENTORING  
PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **VIKRAM KHOPADE | ARVIND ASHTEKAR**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**TANISHA RATHI**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **KMIP JAVA CLIENT SDK - TO CREATE  
OPEN SOURCE, SCALABLE JAVA LIBRARY** UNDER THE GLOBAL REMOTE MENTORING  
PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **VIKRAM KHOPADE | ARVIND ASHTEKAR**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj'.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**VEDIKA GHEI**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **KMIP JAVA CLIENT SDK - TO CREATE  
OPEN SOURCE, SCALABLE JAVA LIBRARY** UNDER THE GLOBAL REMOTE MENTORING  
PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **VIKRAM KHOPADE | ARVIND ASHTEKAR**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**VIDUSHI MISHRA**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **KMIP JAVA CLIENT SDK - TO CREATE  
OPEN SOURCE, SCALABLE JAVA LIBRARY** UNDER THE GLOBAL REMOTE MENTORING  
PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **VIKRAM KHOPADE | ARVIND ASHTEKAR**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

ARCHITA CHEBOLU

FROM CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

FOR PARTICIPATING & COMPLETING THE PROJECT **CAPSTONE PROJECT - MOBILE BASED CLIENT TO CLOUD INFRASTRUCTURE SYSTEM**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **SWANAND GADRE**

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited





# CERTIFICATE OF PARTICIPATION

SIMRAN KHINVASARA

FROM CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

FOR PARTICIPATING & COMPLETING THE PROJECT **CAPSTONE PROJECT - MOBILE BASED CLIENT TO CLOUD INFRASTRUCTURE SYSTEM**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **SWAMAND GADRE**

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

SHUBHADA MOHITE

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

FOR PARTICIPATING & COMPLETING THE PROJECT **CAPSTONE PROJECT - MOBILE BASED CLIENT TO CLOUD INFRASTRUCTURE SYSTEM**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **SWANAND GADRE**

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

GEETANJALI SAPAR

FROM CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

FOR PARTICIPATING & COMPLETING THE PROJECT CAPSTONE PROJECT - MOBILE BASED CLIENT TO CLOUD INFRASTRUCTURE SYSTEM, UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : SWANAND GADRE

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited

Date: September 23, 2020

## Project Completion Letter

This is to certify that Priyadarshini Deshmukh a student of MKSSS's Cummins College of Engineering for Women – Pune has successfully completed her final year project 'Low Code Application Builder' under the guidance of Mr. Sagar Deshitty from 22 October 2019 to 20 August 2020.

We wish her all the best for her future endeavors.

Best Regards,



Yashraj Bagal  
Human Resources  
For and on behalf of Rocket Software Development India Pvt. Ltd.





Head Office:  
4th Floor Devika Heights,  
Opposite Mangala Theater,  
Corporation Bus Stop,  
Pune-411005,  
[info@globemindstechnologies.com](mailto:info@globemindstechnologies.com)  
☎ 020-65212255, 8856823361

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Date: - 25/09/2019

## Sponsorship Letter

I am writing to see if you and Globeminds Technologies, Pune would be interested in sponsoring a presentation for the students of Cummins College of Engineering Pune, MH.

We would like to invite

Miss Akshada Tuplondhe  
Miss Yashashree Pawar  
Miss Nitika Jangra  
Miss Supriya Bobade

to work on **“SMART CONTRACT FOR EDUCATIONAL DIGITAL CERTIFICATE USING BLOCKCHAIN”**, Area of working: database security. Your sponsorship will help assure the success of the Globeminds Technologies. Enclosed please find the fact sheet, levels sponsorship packet and sponsorship form. Please do not hesitate to contact me with any questions or concerns. I look forward to speaking with you at your earliest convenience.  
Sincerely,

Project Manager  
Mr. Pravin P. Jadhav  
(Globeminds Technologies Pune)





# CERTIFICATE OF PARTICIPATION

**PORNIMA BADADE**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **MULTICLOUD INSIGHTS USING CLOUD  
COST AND USAGE DATA**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED  
BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **MANISH MITRUKA**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**AKSHADA UNDRÉ**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **MULTICLOUD INSIGHTS USING CLOUD  
COST AND USAGE DATA**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED  
BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **MANISH MITRUKA**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



# CERTIFICATE OF PARTICIPATION

**MANSA GANORE**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **MULTICLOUD INSIGHTS USING CLOUD  
COST AND USAGE DATA**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED  
BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **MANISH MITRUKA**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited





# CERTIFICATE OF PARTICIPATION

**SAMRADNYI SARADE**

---

FROM **CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

---

FOR PARTICIPATING & COMPLETING THE PROJECT **MULTICLOUD INSIGHTS USING CLOUD  
COST AND USAGE DATA**. UNDER THE GLOBAL REMOTE MENTORING PROGRAM CONDUCTED  
BY IBM INDIA PRIVATE LIMITED FROM AUG 2019 TO APRIL 2020.

IBM Mentors : **MANISH MITRUKA**

A handwritten signature in black ink, appearing to read 'Mona Bharadwaj', with a stylized flourish at the end.

Mona Bharadwaj  
Head of University Relations,  
IBM India Private Limited



## CERTIFICATE

This is to certify that the project

### "AI BASED VIDEO RECOMMENDATION SYSTEM"

Submitted by

VEDIKA BHENDE (4309)	Exam no: C22016221315
ANUSHKA KULKARNI (4340)	Exam no: C22016221307
VRUSHALI LAD (4341)	Exam no: C22016221236
SAYALI RAO (4364)	Exam no: C22016221218

is being sponsored by, **kPoint Technologies**, Baner and the work has been carried out by them under the supervision of **Mr. Pranav Nabar, Chief Architect and Mr. Abhijit Kulkarni, VP Business Development** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

(Abhijit Kulkarni)

**KPoint Technologies Pvt. Ltd.**  
2nd Floor, Kapil Complex,  
Opp. Prabhavoo Tech Park,  
Baner Road, Baner, Pune-411045



**OpenDev**<sup>™</sup>  
TECHNOLOGIES Pvt. Ltd.  
Innovation Beyond Technologies

C.I.No. :U72900PN2014PTC150916  
Ref.No. :

External Project Guide/Mentor Feedback about B.Tech. Project  
(Year 2019-20)

Date :- 4/3/2020

We would like to thank you for your valuable feedback and support

This feedback will be valuable to improve project work in positive and constructive manner

Project Title:- **Web Based Doctor Appointment and Patient Report Management System.**

Group No:- 31

Name of Students:- Sneha Sanjay Patil

Aishwarya Sandip Gandhi

Mayuri Sanjay Lotkar

Dhanshree Shivaji Jandhale

Sponsoring Company:- OpenDev Technologies Pvt. Ltd. Pune

Area of Project:- Web Development and Artificial Intelligence

Name of external Guide:- Mr. Sunil Kulkar

Designation:- Project Manager

1) What is your overall evaluation about the project?

Ans. Overall Performance is good. Technical skills need to be improve.

2) Did our students complete the project objectives/expectation?

Ans. Yes

3) Comment on preparedness for technology / platform of the project

- a) Already prepared
- b) Ready to learn and grasp
- c) Need for of guidance
- d) Struggle to learn

Ans. b), c)



**OpenDev Technologies Pvt. Ltd.**

Plot No.16, Nirmala Vishwa, Shri Ram Sahakari Soc, Warje, Pune- 411 058.

www.opendevtechnologies.com, email - dev@opendevtech.com

Contact - +91 9171004034, +91 9823686543

4) Was the periodic progress of the project according to the schedule?

- a) As per plan
- b) Largely
- c) Partially
- d) Needs improvement

Ans. c)

5) Did the students survey, search, read and apply ideas published in recognized journals like IEEE, Springer etc. to come up with the proposed solutions for the problem statements?

Ans. Yes

6) Were the overall interactions of the student group? (Very Good, Good, Satisfactory)

Ans. Good

7) Did they maintain required documentation related to the progress of the project (Y/N)?

Ans. Yes

8) Any other Comments on Project Activity and Group under your guidance.

Ans. The group was active they met project objectives as well as they follow guidelines. Sometimes the deadlines were not followed but I hope they will improve it.

9) Did the students evaluate multiple approaches/design/technologies solution to solve the project problem statements?

Ans. Yes.

10) Did the students understand and address concerns related to the sustainability and environmental impacts of their designed solution?

Ans. Yes

11) While working on the project, did the students need to understand, appreciate address concerns related to end-users, society and cultural issues.

Ans. Yes

12) General Comments/ Suggestions if any

Ans. No

Signature of Sunil Kulkar

*Sunil Kulkar*

Date 01/09/2020

The External Guide

Thank you for your valuable feedback & time during the year of Project.



21 September 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Himaja Chandaluri and Ms. Nayana Mangalpalli, students of Computer Engineering, MKSS's Cummins College of Engineering for Women, Pune have successfully completed their B. Tech. Project titled 'Let's Personalize Pollution' at AlgoAsylum.

Sincerely,

SHRIRANG K. KARANDIKAR,

Founder and CEO,

AlgoAsylum



# Certificate

Date: 31/07/2020

This is to certify that Miss. Saloni Agiwal has completed her final year B.E. project at Kaalpanik Technologies, Pune 2019-2020.

She has worked on a project titled Energy Cost Prediction With ML for Pool Automation. This project was aimed to predict the energy cost & forecast them for consecutive days, months & year. So that user can predict the energy consumption cost and monitor usage. Identification of faulty devices based on an anomaly in power consumption. As part of the project, she worked on energy dataset, building a machine learning model and running it on a neural network.

During the project duration she demonstrated proactive problem solving skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavours.

Warm regards,

**Jayesh Chavan**  
Solution Architect | Founder  
Kaalpanik Technologies LLP - Beyond Imagination

+91 8484207473    [contact@kaalpanik.in](mailto:contact@kaalpanik.in)    [www.kaalpanik.in](http://www.kaalpanik.in)

206, Business Square, Bavdhan, **Pune, MH, 411021** 🏠



# Certificate

Date: 31/07/2020

This is to certify that Miss. Shrushti Baldava has completed her final year B.E. project at Kaalpanik Technologies, Pune 2019-2020.

She has worked on a project titled Energy Cost Prediction With ML for Pool Automation. This project was aimed to predict the energy cost & forecast them for consecutive days, months & year. So that user can predict the energy consumption cost and monitor usage. Identification of faulty devices based on an anomaly in power consumption. As part of the project, she worked on energy dataset, building a machine learning model and running it on a neural network.

During the project duration she demonstrated proactive problem solving skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavours.

Warm regards,

**Jayesh Chavan**  
Solution Architect | Founder  
Kaalpanik Technologies LLP - Beyond Imagination

+91 8484207473    [contact@kaalpanik.in](mailto:contact@kaalpanik.in)    [www.kaalpanik.in](http://www.kaalpanik.in)

206, Business Square, Bavdhan, **Pune, MH, 411021** 🏠



# Certificate

Date: 31/07/2020

This is to certify that Miss. Aditi Naringe has completed her final year B.E. project at Kaalpanik Technologies, Pune 2019-2020.

She has worked on a project titled Energy Cost Prediction With ML for Pool Automation. This project was aimed to predict the energy cost & forecast them for consecutive days, months & year. So that user can predict the energy consumption cost and monitor usage. Identification of faulty devices based on an anomaly in power consumption. As part of the project, she worked on energy dataset, building a machine learning model and running it on a neural network.

During the project duration she demonstrated proactive problem solving skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavours.

Warm regards,

**Jayesh Chavan**  
Solution Architect | Founder  
Kaalpanik Technologies LLP - Beyond Imagination

+91 8484207473    [contact@kaalpanik.in](mailto:contact@kaalpanik.in)    [www.kaalpanik.in](http://www.kaalpanik.in)

206, Business Square, Bavdhan, **Pune, MH, 411021** 🏠





# Certificate

Date: 31/07/2020

This is to certify that Miss. Rucha Ranade has completed her final year B.E. project at Kaalpanik Technologies, Pune 2019-2020.

She has worked on a project titled Energy Cost Prediction With ML for Pool Automation. This project was aimed to predict the energy cost & forecast them for consecutive days, months & year. So that user can predict the energy consumption cost and monitor usage. Identification of faulty devices based on an anomaly in power consumption. As part of the project, she worked on energy dataset, building a machine learning model and running it on a neural network.

During the project duration she demonstrated proactive problem solving skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavours.

Warm regards,

**Jayesh Chavan**  
Solution Architect | Founder  
Kaalpanik Technologies LLP - Beyond Imagination

+91 8484207473    [contact@kaalpanik.in](mailto:contact@kaalpanik.in)    [www.kaalpanik.in](http://www.kaalpanik.in)

206, Business Square, Bavdhan, **Pune, MH, 411021** 🏠

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# Certificate of Project Completion



Awarded to

Jagruati Deshpande, Deepshree Kadus,  
Krutika Padeer & Seema Pawar

This is to certify on successful completion of final year project with HP Inc. Pune in “Recommendation System for Device Journey” .Project duration from 22 August, 2019 till 17 March, 2020 under the guidance and supervision of Narendra Chincholikar - HP Inc.

A handwritten signature in blue ink, appearing to read 'Vishal Bansal', written over a horizontal line.

Vishal Bansal  
India Lead -  
University Relations

15<sup>th</sup> June 2020

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# AlgoAsylum

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21 August 2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Kimaya Badhe, Neha Chaudhari, Samruddhi Kanhed and Kanchan Sarolkar, students of Computer Engineering, MKSSS's Cummins College of Engineering for Women, Pune are being sponsored for their B. Tech. Project titled 'Document Security Based on Unique Reading Pattern' at AlgoAsylum.

Sincerely,

SHRIRANG K. KARANDIKAR,

Founder and CEO,

AlgoAsylum



# ONEGO

F-212, Daffodils, Magarpatta City, Hadapsar,  
Pune 411013

E-mail : [info@onego.in](mailto:info@onego.in)

Contact: 9545943434/7719063504

Date: 10 July 2020

TO WHOMEVER IT CONCERNS

We at ONEGO, hereby certify that the project “Automatic Depression Level Detection through Visual Input”, an idea proposed by Ms. Akshada Mulay, Ms. Shivani Kadam, Ms. Rasi Wani and Ms. Anagha Dhekne is completed. The project span was from 9<sup>th</sup> August 2019 to 25<sup>th</sup> April 2020.

During this period, all the interns worked with Mr. Pritish Deshpande, for all the technical support. These interns have been very hard working and thorough with their research and work. If you have any queries, feel free to contact us at [info@onego.in](mailto:info@onego.in).

Signed by  
Subham Patil  
HR Manager

ONEGO



**Optimum Data Analytics**

**Connecting Dots... Discovering Patterns!!!**

**Optimum Data Analytics Pvt. Ltd.**

Pune, India

CIN: **U72900PN2017PTC168231**

Contact: [admin@odaml.com](mailto:admin@odaml.com)

**Date: 23/09/2020**

**To,**

**Prof. Dr. Supriya Kelkar**

Head, Department of Computer Science,

MKSSS'S Cummins College of Engineering for Women, Pune

Karve Nagar, Pune - 411052

**Subject:** Project Completion Certificate

Dear Madam,

This is to certify that following students have successfully completed below mentioned project from 29/08/2019 to 29/05/2020.

<b>Name of Student(s)</b>	<b>Subject</b>	<b>Title of Project</b>	<b>Guide from College</b>
<b>Shivani Ghuge Srushti Gandhi Shital Patil</b>	Computer Engineering	BuddyBot	Mrs. Pranjali Deshpande

During the project internship they demonstrated good design skills with a self-motivated attitude to learn new things. Their performance exceeded expectations and were able to complete the project successfully on time.

We wish them all the best for future endeavors.

**Rutuja Udyawar**

**Director and Founder**

**Optimum Data Analytics**



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# Certificate of Project Completion



Awarded to

Bhakti Deshpande , Samruddhi Malge,  
Samrudhi Ghorpade & Yashashri Bongulwar

This is to certify on successful completion of final year project with HP Inc. Pune in “One click Spark development platform” .  
Project duration from 22 August, 2019 till 17 March, 2020 under the guidance and supervision of Narendra Chinholikar - HP Inc.

A handwritten signature in blue ink, appearing to read 'Vishal Bansal', with a horizontal line underneath.

Vishal Bansal  
India Lead -  
University Relations

15<sup>th</sup> June 2020

**Connecting Dots... Discovering Patterns!!!**

**Date: 18.09.2019**

**To,**  
**Prof. Dr. Supriya Kelkar**  
Head, Department of Computer Science,  
MKSSSS'S Cummins College of Engineering for Women, Pune  
Karve Nagar, Pune - 411052

**Subject:** Permission for internship

Dear Ma'am,

We are pleased to inform you that following students have been granted permission to do Student Project at this organization from 18<sup>th</sup> September 2019 to 28<sup>th</sup> June 2020.

Name of Student(s)	Subject	Title of Project	Guides from College
Samruddhi Lahoti Raghavi Adoni Vaidehi Joshi	Computer Science	BERT: Services & Comparative Analysis	Dr. Ashutosh Muchrikar Ms. Sheetal Barekar

A guide is allotted at our end to these students for any queries and it is expected that the students will observe the normal rules to maintain discipline.

After completion of the project work, it may please be ensured that one soft copy of the project report be submitted to Optimum Data Analytics.

Kindly note that the student(s) will not be given stipend, TA/DA, lodging and boarding facility.



**Rutuja Udyawar**  
**Director and Founder**  
**Optimum Data Analytics**



---

# Certificate of Project Completion



Awarded to

Shreya Shinde, Shubhangi Gaherwar,  
Malvika Menon & Avani Sathe

This is to certify on successful completion of final year project with HP Inc. Pune in “Creation Of Knowledge Graph For Client Complaint Management System” .Project duration from 22 August, 2019 till 17 March, 2020 under the guidance and supervision of Vishal Sharma - HP Inc.

A handwritten signature in blue ink, appearing to read 'Vishal Bansal', written over a light blue horizontal line.

Vishal Bansal  
India Lead -  
University Relations

15<sup>th</sup> June 2020





Date: September 23, 2020

## Project Completion Letter

This is to certify that Abhiruchi Chaudhari a student of MKSSS's Cummins College of Engineering for Women – Pune has successfully completed her final year project 'DevSecOps - Continuous Integration and Continuous Development' under the guidance of Mr. Aniket Vanarase and Mrs. Rupali Lokhande from 22 October 2019 to 22 September 2020.

We wish her all the best for her future endeavors.

Best Regards,



Yashraj Bagal  
Human Resources  
For and on behalf of Rocket Software Development India Pvt. Ltd.



Date: September 23, 2020

## Project Completion Letter

This is to certify that Mohini Khare a student of MKSSS's Cummins College of Engineering for Women – Pune has successfully completed her final year project 'DevSecOps - Continuous Integration and Continuous Development' under the guidance of Mr. Aniket Vanarase and Mrs. Rupali Lokhande from 22 October 2019 to 22 September 2020.

We wish her all the best for her future endeavors.

Best Regards,



Yashraj Bagal  
Human Resources  
For and on behalf of Rocket Software Development India Pvt. Ltd.



Date: September 23, 2020

## Project Completion Letter

This is to certify that Harshada Kothawade a student of MKSSS's Cummins College of Engineering for Women – Pune has successfully completed her final year project 'DevSecOps - Continuous Integration and Continuous Development' under the guidance of Mr. Aniket Vanarase and Mrs. Rupali Lokhande from 22 October 2019 to 22 September 2020.

We wish her all the best for her future endeavors.

Best Regards,



Yashraj Bagal  
Human Resources  
For and on behalf of Rocket Software Development India Pvt. Ltd.



Date: September 23, 2020

## Project Completion Letter

This is to certify that Shalaka Kothavade a student of MKSSS's Cummins College of Engineering for Women – Pune has successfully completed her final year project 'DevSecOps - Continuous Integration and Continuous Development' under the guidance of Mr. Aniket Vanarase and Mrs. Rupali Lokhande from 22 October 2019 to 22 September 2020.

We wish her all the best for her future endeavors.

Best Regards,



Yashraj Bagal  
Human Resources  
For and on behalf of Rocket Software Development India Pvt. Ltd.



## Sponsorship Completion Letter

### LegalRaj Consultants Services Private Limited

Phone no: (020) 2433 3635

**Sponsor Name:** Raj Gupta (Director)

LegalRaj Consultants Services Private Limited is a Legal and Corporate Advisory Company. Our Company provides a Legal, Financial, Corporate-Secretarial, FEMA, Intellectual Property related consultancy, and advisory services to the clients. These services can give a strong competitive edge for clients' business.

Our Organization has sponsored a Classified Website project in the Web Development domain. The main objective of this project is to provide a platform to people at large for buying and selling the products and services & earning the revenue from displaying ads.

The work is not completed by students. I want all of you to increase the level of your efforts and dedication. All team members not worked up to the expectations and the Project is not completed fully, only few functionalities completed successfully.

Sincerely,

For LegalRaj Consultants Services Private Limited



Raj Gupta

Director

**Date:** 29.09.2020



## AppBell Technologies Pvt. Ltd.

Date: 19<sup>th</sup> December 2019

### Certificate of B.Tech Project

To,  
Cummins College of Engineering, Pune  
Pune, Maharashtra

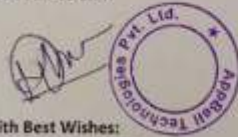
Subject: B.Tech Project with App Bell Technologies Pvt. Ltd

Respected HOD Ma'am (Computer Engineering),

This is to certify that

Miss. Tanvi Kharade (C22016221312),  
Miss. Mokshi Thaploo(C22016221324),  
Miss. Shreya Shah(C22016221308) and  
Miss Sakshi Pophale(C22017222201),

students of MKSSS Cummins College of Engineering , Pune are doing their B.Tech Project with AppBell Technologies Pvt. Ltd from 1<sup>st</sup> August 2019 to 22<sup>nd</sup> May 2020 as part of their curriculum.



With Best Wishes:  
Gajanan V Jannawar  
Director  
App Bell Technologies Pvt. Ltd

**REF: Spon-SPO858-2019**

**Date: 19/12/2019**

**TO WHOMSOEVER IT MAY CONCERN**

To,

The HoD,

Computer Dept.

MKSSS Cummins College of Engineering for Women, Karve Nagar, Dist: Pune

Kind Attention: Prof. Gitanjali Salunkhe (Project Guide)

*Respected Sir/Madam,*

*Mr. Pankaj Marathe (Director, Web Minds IT Solution, Pune), has confirmed technical support for following project of the final year of BE Students (Computer Dept.) of “MKSSS Cummins College of Engineering for Women, Karve Nagar, Pune”.*

***Project Title: “Automatic Attendance System using Face Recognition”.***

***Name of Students: 1) Pranali Sharad Bochare.***

*2) Rupali Nandu Rasal.*

*3) Minal Vijay Patil.*

*4) Chaitrali Dhiraj Gavhane.*

Thanking You,



Er. Pankaj Marathe

***(Web Minds IT Solution, Pune)***



# SOFTMUSK INFO PVT LTD

Technology & Innovation Powered By Passion

## CERTIFICATE OF B.TECH PROJECT

**Date: 19<sup>th</sup> December 2020**

To,

Cummins College of Engineering,

Pune, Maharashtra

Subject: B.Tech Project with Softmusk Info Pvt. Ltd

Respected HOD Madam (Computer Engineering),

This is to certify that

Miss. SnehalKhot (C22016222208)

Miss. SayaliPawar (C22016221262)

Miss. MohiniBansode (C22016222213)

Students of MKSSS Cummins College of Engineering, Pune are doing their B.Tech Project with **SOFTMUSK INFO PVT LTD** from 1<sup>st</sup> August 2019 to 22<sup>nd</sup> May 2020 as part of their curriculum.

**With Best Wishes,**



**AMRUT H SAYANAKAR**  
DIRECTOR  
(SOFTMUSK INFO PVT LTD)



01 July 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Himani Talati, a student of B. Tech. (Computer Engineering), MKSSS's Cummins College of Engineering for Women, Pune has successfully completed an internship program at AlgoAsylum from 1<sup>st</sup> November 2019 to 1<sup>st</sup> May 2020. During this period of her internship program, she was found to be punctual, inquisitive and hardworking. Her performance during her tenure with us, was found to be satisfactory.

We wish her success in all her future endeavours.

Sincerely,

*Shrirang Karandikar*

Shrirang K. Karandikar,

Founder and CEO,

AlgoAsylum

30th September 2020

**To Whomsoever It May Concern**

This is to certify that **Shivani Gokhale, student of MKSSS's Cummins College of Engineering For Women, Pune** has successfully completed her internship with **Appzen Labs India Pvt. Ltd.** The duration of internship was from **1st July 2020 to 30th September 2020.**

During this period, she was working with the Engineering team.

We wish her all the best in her future endeavors.

For AppZen Labs India Pvt. Ltd.



**Sujata Ramani**  
**HR Manager**

---

**Appzen Labs India Pvt. Ltd.**

CIN: U72900PN2019PTC182971

Regd. Address: Unit No. 1A, 1B and 2B, 1st Floor and 2nd Floor, PV HOUSE, F.P.NO.85/2,3,4,5 Damle Path,  
Erandwane Pune 411004

[alipl@appzen.com](mailto:alipl@appzen.com) | [appzen.com](http://appzen.com)



## Internship Completion Confirmation | Citi | Cummins

1 message

**Gupta, Prabhav** <prabhav.gupta@citigroup.com>

To: "placements@cumminscollege.in" <placements@cumminscollege.in>

Cc: "Gavankar, Sanjana1" <sanjana1.gavankar@citigroup.com>, "prachee.adoni@cumminscollege.in" <prachee.adoni@cumminscollege.in>, "mahima1551@gmail.com" <mahima1551@gmail.com>, "mariam.aleena@cumminscollege.in" <mariam.aleena@cumminscollege.in>, "sarah.joshi@cumminscollege.in" <sarah.joshi@cumminscollege.in>, "swara.nerkar@cumminscollege.in" <swara.nerkar@cumminscollege.in>, "pranita.s.shinde@cumminscollege.in" <pranita.s.shinde@cumminscollege.in>, "sakshi.mahajan@cumminscollege.in" <sakshi.mahajan@cumminscollege.in>, "rutuja.kolhe@cumminscollege.in" <rutuja.kolhe@cumminscollege.in>, "shriya.bhat@cumminscollege.in" <shriya.bhat@cumminscollege.in>, "reet.khanchandani@cumminscollege.in" <reet.khanchandani@cumminscollege.in>, "esha.chiplunkar@cumminscollege.in" <esha.chiplunkar@cumminscollege.in>, "shivani.n.joshi@cumminscollege.in" <shivani.n.joshi@cumminscollege.in>

Hi Team,

This is to confirm for the below students the completion of a 5 week internship with Citi. The details are as follows:

Full Name	Location	Name of Institute	Internship Start Date	Internship End Date	Project Title	Narr
Mahima Patel	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	ELK for Log Analytics	Nilesh /
Prachee Adoni	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	ELK for Log Analytics	Nilesh /
Aleena Mariam	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	ELK using Log Analytics	Nilesh /
Sarah Joshi	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	PDF Template Validation and rebuilding using NLP	Shanka
Shivani Nitin Joshi	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	PDF Template Validation and rebuilding using NLP	Shanka
Swara Nerkar	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	PDF Template Validation and rebuilding using NLP	Shanka
Rutuja Laxmikant Kolhe	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K
Sakshi Mahajan	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K
Pranita Shinde	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to calculate HVaR?	Amul K
Esha Chiplunkar	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical simulations are done in finance to calculate HVaR?	Amul K
Reet Khanchandani	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K
Shriya Bhat	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K

Please treat this as a formal communication from our end.

We will also be sharing the formal letter soon with the interns.

Regards,

*Prabhav Gupta*

Human Resources | Campus Hiring | Citi India

T: +91 22617 56311 | +91 76000 08443

**CLOUD COUNSELAGE PVT. LTD.**  
IT & Management Consulting Services



## EXPERIENCE LETTER

This is to certify that **Prajakta Dandge** was engaged with us as an 'Technical Intern' over months of March, June and July 2020 and has successfully completed the project work in Cloud Computing.

**Prajakta Dandge** was sincere and dedicated during the internship.

Best Regards,  
**Tushar Topale**  
Founder & CVO



This is a computer-generated document. Signature is not required.

**CLOUD COUNSELAGE PVT. LTD.**  
IT & Management Consulting Services



## **EXPERIENCE LETTER**

This is to certify that **Pooja Thigle** was engaged with us as an 'Technical Intern' over months of March, June and July 2020 and has successfully completed the project work in Data Science.

**Pooja Thigle** was sincere and dedicated during the internship.

Best Regards,  
**Tushar Topale**  
Founder & CVO



This is a computer-generated document. Signature is not required.



**Appointment Letter**

Date: March 2020

**To**  
**Samruddhi Kulkarni**  
Maharashtra, India.

**Subject: Appointment letter for Internship**

Dear Samruddhi Kulkarni,

We are writing to confirm your engagement as 'Technical Intern' with **Cloud Counselage Pvt. Ltd.** from March 2020 to July 2020 for a period of 3 months, including the preparatory leaves as per the internship schedule. This appointment would not attract any remuneration and would be on an experience basis.

During your internship, you would work on technical tasks to get an overall understanding of the technologies and the industry best practices. During your internship you are expected to work from home and submit regular progress reports on projects/ tasks that you are allocated and involved in. You must ensure that your services are carried out in such manner that the company is in no way prejudiced.

Please note that this letter signifies only the appointment of intern and not completion of internship. We shall provide an internship certificate upon successful completion of this internship.

Looking forward to working with you.

Yours sincerely,

**Harshada Topale**  
Director,  
Cloud Counselage Pvt. Ltd.

**This is a computer-generated document. No signature is required.**



**Date: 26-Aug-2020**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Aboli Shete from MKSSS's Cummins College of Engineering for Women, Pune has done her project with us from 01-Jun-2020 to 14-Aug-2020.

She has successfully completed her project work in Cummins Technologies India Private Limited. The subject of the project as below:

- Oracle Finance (BOLT) Technical Development work

Her performance was found satisfactory during the period

We wish her all the best for all her future endeavours.

**For Cummins Technologies India Private Limited,**

**Kiran Khapre** Digitally signed by Kiran Khapre  
Date: 2020.08.26 17:00:13 +05'30'

**Kiran Khapre**

**HR Leader- ABO Line Functions**

Cummins Technologies India Private Limited  
(Formerly known as Cummins Technologies India Limited)  
Registered Office  
Cummins India Office Campus  
Tower A, 2<sup>ND</sup>, 4<sup>TH</sup> & 8<sup>TH</sup> Floor, Survey No.21, Balewadi  
Pune 411045 Maharashtra, India  
Phone +91 20 67067000, 39651000  
Fax +91 20 67067011/12/14/18  
Cumminsindia.com  
[ctipl@cummins.com](mailto:ctipl@cummins.com)

CIN:U29113PN1994FTC139153



**Date: 26-Aug-2020**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Rachna Raut from MKSSS's Cummins College of Engineering for Women, Pune has done her project with us from 01-Jun-2020 to 14-Aug-2020.

She has successfully completed her project work in Cummins Technologies India Private Limited. The subject of the project as below:

- Oracle Finance (BOLT) Technical Development work

We wish her all the best for all her future endeavours.

**For Cummins Technologies India Private Limited,**

**Kiran Khapre** Digitally signed by Kiran Khapre  
Date: 2020.08.26 17:01:44 +05'30'

**Kiran Khapre**

**HR Leader- ABO Line Functions**

Cummins Technologies India Private Limited  
(Formerly known as Cummins Technologies India Limited)  
Registered Office  
Cummins India Office Campus  
Tower A, 2<sup>ND</sup>, 4<sup>TH</sup> & 8<sup>TH</sup> Floor, Survey No.21, Balewadi  
Pune 411045 Maharashtra, India  
Phone +91 20 67067000, 39651000  
Fax +91 20 67067011/12/14/18  
Cumminsindia.com  
[ctipl@cummins.com](mailto:ctipl@cummins.com)

CIN:U29113PN1994FTC139153



# DECARTEM

## CERTIFICATE OF COMPLETION

THIS CERTIFIES THAT

# SAMRUDDHI SONAR

was part of our organization from **28th April 2020 to 27th June 2020**.  
Her exceptional contribution as an **Android Application Development Intern** is  
appreciated.



---

**AARYAMAN BAHADUR**

Director



**To whomsoever it may concern**

This is to certify that Aparna Safaya of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Sku Central
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Kiran H R
Guide Name	Siva Vaddadi
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Aabha Jain of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	1. Incidents for Investigations Dashboard, Overall incidents dashboard (Physical + Supply chain + Inv) 2. Guard security coverage dashboard (WIP)
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Vinod Dora
Guide Name	Matheus Leao
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**



**To whomsoever it may concern**

This is to certify that Krupa Bhutada of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Automated Networker Initialization
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Mahesh Kulkarni
Guide Name	Santhana Vasudevan, Pragya Pandey, Alisha Panda, Piyush Kumar, Dwight Smith, Bernard Purdy, Liam Guinane
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Ashwinee Bhanudas Patil of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Centralized Metrics Dashboard
Duration	5/26/2020 – 7/24/2020
Location	Hyderabad
Reporting Manager Name	Nan Zhang
Guide Name	Harish Babu
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Jui Aniket Bangali of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	1. Garuda Forensics Script Automation 2. PQS Web application Development
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Kamadev Pradhan
Guide Name	Pradeep Mani, KamalaKanan Chendimarai, Sahil Kumar Sharma
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**



**To whomsoever it may concern**

This is to certify that Snehal Sambhaji Mahajan of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Business Rules UI
Duration	5/26/2020 – 7/24/2020
Location	Hyderabad
Reporting Manager Name	Mubeen Sultana
Guide Name	Basudev Dey
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**



**To whomsoever it may concern**

This is to certify that Anisha Harikumar Nair of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Rapid Database Extractor. Extract Data for Data Reprocess from Data Source and save it in Excel, CSV format for dividing them for reprocessing
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Kalyani C
Guide Name	Gowtham Pandian
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**





**To whomsoever it may concern**

This is to certify that Madhura Shekhar Potnis of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Order Asset Reconciliation
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Balaji Venkatesan
Guide Name	Melwin Francis
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Shalmalee Sheetal Choudhari of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	GitLab Migration
Duration	5/26/2020 – 7/24/2020
Location	Hyderabad
Reporting Manager Name	Sandhyarani Kethamre
Guide Name	Mathapati Mamata
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Sayali Raosaheb Mane of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	SDL scorecard 6.1 - Python 3.7 openpyxl sys os Intrusion Detection - Python 3.7 csv Django numpy matplotlib pandas pandasql sklearn Pivotal Cloud Foundry
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Mallikarjuna Reddy Duggumati
Guide Name	Ashwini Reddy
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Ira Satish Satvalekar of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	DTC Migration of existing integrations with vulnerability remediation
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Vishnu Sundarrajan
Guide Name	Gaurav Suwal
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com



**To whomsoever it may concern**

This is to certify that Simran Shishir Patil of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Unified Metrics for DD
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Venkat Thoutam
Guide Name	Naveen BJ
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**

Dell International Services India Pvt. Ltd.  
Corporate Identification Number :U74999KA1996FTC055568  
Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village,  
Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030  
Dell.com





**To whomsoever it may concern**

This is to certify that Poojangi Ashok Gadekar of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Online Propensity Modeling of Dell Offline Customers
Duration	5/26/2020 – 7/24/2020
Location	Hyderabad
Reporting Manager Name	Nisanth PS
Guide Name	Jesse Williams
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**



**To whomsoever it may concern**

This is to certify that Ayushi Jain of MKSSS's Cummins College of Engineering for Women, Pune, was working with Dell Technologies for her Internship Project.

Project Details	
Project Name	Resiliency Testing using Chaos Engineering and tools like Chaos monkey
Duration	5/26/2020 – 7/24/2020
Location	Bangalore
Reporting Manager Name	Subba Reddy Eega
Guide Name	Rajiv Popat
Sponsor Name	Jennifer Erickson

She has successfully completed her project. Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

**Savneet Shergill**  
**Senior Director Talent Acquisition**  
**Dell Technologies**





DBOI Global Services Pvt. Ltd.  
Business Bay, Wing 2  
Tower A, 6th, 7th, 8th floor  
Off Airport Road, Yerwada  
Pune – 411 006

CIN: U72900MH2005PTC158278

**September 02, 2020**

**SERVICE CERTIFICATE**

This is to certify that **Dhanashree Barvakar** was employed with us from **June 01, 2020** to **June 26, 2020** as an Intern in the **Post Trade** Department of our Bank in **Pune**. Internship was successfully completed to enable her to develop her practical skills and provide industry exposure.

We wish **Dhanashree Barvakar** all success in her future endeavors.

Yours faithfully,  
**DBOI Global Services Private Limited**

**Authorized Signatory  
Human Resources**

**Authorized Signatory  
Human Resources**



**Pranathi Rao Muralidhar Bora**  
**Qtr No: 232/2, Type V, Necklace Area**  
**Armament Estate, Pashan, Pune 411021**  
**India**

DBOI Global Services Pvt. Ltd.  
Business Bay, Wing 2  
Tower A, 6th, 7th, 8th floor  
Off Airport Road, Yerwada  
Pune – 411 006

CIN: U72900MH2005PTC158278

**May 27, 2020**

Dear Pranathi,

This is with reference to our offer letter dated February 25, 2020 offering you internship with DBOI Global Services Private Limited. We hereby inform you that the internship tenure will be revised and the new dates shall now be from **June 01, 2020 to June 26, 2020**.

During the above internship period of 4 weeks you shall be paid a stipend of **INR 50,000 Stipend** upon satisfactory completion of the same.

All other terms and conditions as mentioned in the above mentioned letter remain unchanged and shall be applicable.

Yours sincerely,  
**DBOI Global Services Private Limited**

Authorized Signatory  
Human Resources

Authorized Signatory  
Human Resources

## Certificate of Internship

---

### TO WHOM IT MAY CONCERN

This is to certify that **Ms. Chhanam Thorat** has completed internship programme on “**Web Developer**” from 04.07.2020 to 24.07.2020.

She took keen interest in the work assigned and successfully completed it. During the period of internship we found her to be punctual, hardworking and inquisitive.

We wish her luck and success in all her future endeavours.



**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com

## [Goldman Sachs] Internship Certificate

Inbox x



**Justus, Samuel** <Samuel.Justus@gs.com>

to me ▾

Mon, Sep 14, 10:09 AM



Dear Sir / Madam,

### **Sub : Completion of 6 weeks internship**

This is to confirm that Aathira Pillai completed her internship with Core Engineering division of Goldman Sachs Services Private Limited from June 15, 2020 to July 24, 2020.

We wish her all the best for future endeavours.

Best Regards,

India Campus Recruiting



From Justus, Samuel • Samuel.Justus@gs.com

To andorawiles@gmail.com

Date 14 Sep 2020, 10:09

 Standard encryption (TLS).  
[See security details](#)

Dear Sir / Madam,

**Sub : Completion of 6 weeks  
internship**

This is to confirm that Shambhavi Pandey completed her internship with Securities division of Goldman Sachs Services Private Limited from June 15, 2020 to July 24, 2020.

We wish her all the best for future endeavours.

Best Regards,

India Campus Recruiting

# Certificate of Participation

Presented to

**SAKSHI MANOJKUMAR JAIN**

---

For successfully completing Project Parth held from June to September 2020,  
conducted by HSBC Technology India (HTI) ITID colleagues,  
as part of its corporate sustainability efforts for Katalyst India.



A handwritten signature in blue ink, appearing to read "Girish Bidani".

**Girish Bidani**  
Centre Head Pune,  
HSBC Technology India

Registered Office:

**Intuit India Product Development Centre Pvt. Ltd.**

8, PriTech Park SEZ Area  
Belandur Village Varthur Hobli,  
Bangalore East Taluk Campus  
Bangalore - 560 103  
Ph:+91 80 3076 7000  
Fax: +91 80 3076 7010



March 17, 2020

Ovee Kulkarni

Flat no.3,A Building,Shri-Shubhakar Nagar Cummins Company, beside Tarangan,Dahanukar Colony.

Pune MH 411038

Dear **Ovee Vinay Kulkarni**,

We are pleased to offer you the position of **Summer Intern** at **Intuit India Product Development Center Private Limited** ("**Intuit**" or the "**Company**") reporting to **Raza Naqvi**. We hope you are as excited about this opportunity as we are to have you on our team. The following is a summary of the terms and conditions of this offer, which will apply to your temporary internship with Intuit.

**Terms and Conditions:**

The duration of your internship is for **10 weeks** starting from **May 27, 2020** ("**Internship Start Date**"). You will be paid a stipend of **Indian Rupee (INR) 60,000/-** per month. You will not be eligible for any other benefits of the organization.

Please note that Company will not be responsible for any personal/other liabilities in connection to the contract other than the stipend mentioned in this Intern Offer letter.

This letter confirms our understanding that you are not subject to any employment agreement or any other agreement that would preclude the Company from offering this position to you or preclude you from joining our Company in the position described above. This also confirms that you will not be asked to disclose to the Company any secrets or proprietary information from your prior places of employment.

You shall maintain total secrecy with regard to any confidential information pertaining to the Company and its customers and you shall not divulge it either during the internship or at any point following the internship. Additionally, as a pre-requisite for your internship, you will be required to execute the company's Intern Invention Assignment & Confidentiality Agreement, attached hereto as Annexure B.

This letter of offer shall not be construed as creating or evidencing any separate or independent obligation of the Company or any other person or entity to hire or to retain you as its employee, consultant or otherwise for any specified period of time or to assign to you any particular duties or responsibilities.

Your work in the organization will be subject to the rules and regulations of the organization as laid down in relation to conduct, discipline and other matters. If any declaration given or information furnished by you to the Company proves to be false or if you are found to have willfully suppressed or concealed any material information, in such cases, you will be liable to removal from internship without any notice.

Your internship with the Company is only for the period of time specified above, beginning on the Internship Start Date, and may only be extended if in a writing signed by the Company's HR Country Manager. In addition, either you or the Company is free to terminate the relationship for any reason, with or without cause, with one month's notice or payment in lieu of notice.

Registered Office:

**Intuit India Product Development Centre Pvt. Ltd.**

8, PriTech Park SEZ Area

Belandur Village Varthur Hobli,

Bangalore East Taluk Campus

Bangalore - 560 103

Ph:+91 80 3076 7000

Fax: +91 80 3076 7010



This letter constitutes the entire agreement between you and Intuit and supersedes any and all prior agreements, statements or representations made between the parties regarding your internship.

**Please electronically sign and date this letter and confirm your planned hire date.** We take pleasure in welcoming you to our organization and sincerely hope that your period of internship with us will be pleasant and of mutual benefit.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mohan Kumar', is written over a faint, light-colored signature line. The signature is fluid and cursive.

Mohan Kumar

Senior Talent Acquisition Program Manager

**Intuit India Product Development Center Private Limited**



Intuit India Product Development Centre Pvt. Ltd.  
Campus 8, PriTech Park SEZ Area  
Belandur Village Varthur Hobli,  
Bangalore East Taluk  
Bangalore - 560 103  
Ph:+91 80 3076 7000  
Fax: +91 80 3076 7010



24<sup>th</sup> July 2020

Intern Name: Bhavana Mache  
Intern ID: 351763

Dear Bhavana,

As explained in your offer letter, you are approaching the end date for your internship with Intuit. You are relieved from your services on the close of business hours, 24/07/2020.

Given below are your service particulars in Intuit India Product Development Centre Pvt. Ltd:

Name	: Bhavana Mache
Intern ID	: 351763
Start Date	: 04th May 2020
End Date	: 24th July 2020
College Name	: MKSS'S Cummins College of Engineering for Woman, Pune
Intern Manager	: Ramesh Chander
Project Title	: Build AppFabric Tool for OBill-BRM

We wish you all the best in your future endeavors.

Sincerely,

For **Intuit India Product Development Centre Pvt Ltd**

A handwritten signature in blue ink, appearing to read "Sundareswaran V". The signature is fluid and cursive, written over a light blue rectangular background.

**Sundareswaran V**

**Leader - Global Payroll and HR Operations**

**Gmail**

email@kananpark.com

Compose

- Inbox 9,070
- Starred
- Snoozed
- Important
- Chats
- Sent
- Drafts 5

Meet

- New meeting
- Join a meeting

Hangouts

- Rucha +
- ANUJ JANGLE  
You: computer and

## Congratulations! Internship with Kanan Park - Rucha Mundhe

**Kanan Park** <email@kananpark.com>  
to me, mayank.gandhi

Wed, Mar 18, 2:36 PM

Dear Rucha,

We are pleased to extend an Internship Offer with Kanan Park to you. Your terms of appointment are as follows:

**DOJ:** 19 March 2020

**Project:** Mobile Application for Drone (Alpha model)

**Tenure:** Till 31 March, 2020 you would work on full time basis. Subsequently, subject to your academics you may continue working full time otherwise on weekends i.e. Saturday and Sunday.

**Stipend:** Rs. 800 per application. (To be paid on successful completion of the app).

Please note that this offer is subject to due verification of your documents on joining. You are requested to respond with your acceptance of the offer and confirm your date of joining within 2 working days, failing which this appointment will be deemed cancelled.

We welcome you to our organisation and look forward to having you join our team.

Do feel free to contact us for any further clarifications.

Thanks,  
Team Kanan Park



## Internship Completion Confirmation | Citi | Cummins

1 message

**Gupta, Prabhav** <prabhav.gupta@citi.com>

To: "placements@cumminscollege.in" <placements@cumminscollege.in>

Cc: "Gavankar, Sanjana1" <sanjana1.gavankar@citi.com>, "prachee.adoni@cumminscollege.in" <prachee.adoni@cumminscollege.in>, "mahima1551@gmail.com" <mahima1551@gmail.com>, "mariam.aleena@cumminscollege.in" <mariam.aleena@cumminscollege.in>, "sarah.joshi@cumminscollege.in" <sarah.joshi@cumminscollege.in>, "swara.nerkar@cumminscollege.in" <swara.nerkar@cumminscollege.in>, "pranita.s.shinde@cumminscollege.in" <pranita.s.shinde@cumminscollege.in>, "sakshi.mahajan@cumminscollege.in" <sakshi.mahajan@cumminscollege.in>, "rutuja.kolhe@cumminscollege.in" <rutuja.kolhe@cumminscollege.in>, "shriya.bhat@cumminscollege.in" <shriya.bhat@cumminscollege.in>, "reet.khanchandani@cumminscollege.in" <reet.khanchandani@cumminscollege.in>, "esha.chiplunkar@cumminscollege.in" <esha.chiplunkar@cumminscollege.in>, "shivani.n.joshi@cumminscollege.in" <shivani.n.joshi@cumminscollege.in>

Hi Team,

This is to confirm for the below students the completion of a 5 week internship with Citi. The details are as follows:

Full Name	Location	Name of Institute	Internship Start Date	Internship End Date	Project Title	Narr
Mahima Patel	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	ELK for Log Analytics	Nilesh /
Prachee Adoni	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	ELK for Log Analytics	Nilesh /
Aleena Marium	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	ELK using Log Analytics	Nilesh /
Sarah Joshi	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	PDF Template Validation and rebuilding using NLP	Shanka
Shivani Nitin Joshi	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	PDF Template Validation and rebuilding using NLP	Shanka
Swara Nerkar	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	PDF Template Validation and rebuilding using NLP	Shanka
Rutuja Laxmikant Kolhe	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K
Sakshi Mahajan	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K
Pranita Shinde	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to calculate HVaR?	Amul K
Esha Chiplunkar	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical simulations are done in finance to calculate HVaR?	Amul K
Reet Khanchandani	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K
Shriya Bhat	CSC Pune	MKSSS's Cummins College of Engineering, Pune	1-Jun-20	3-Jul-20	How Historical Simulations are done in Finance to Calculate HVaR?	Amul K

Please treat this as a formal communication from our end.

We will also be sharing the formal letter soon with the interns.

Regards,

Prabhav Gupta

Human Resources | Campus Hiring | Citi India

T: +91 22617 56311 | +91 76000 08443



June 11, 2020

**To Whom It May Concern**

**EXPERIENCE CERTIFICATE**

This is to certify that **Sonali Ambadkar (EE ID 104892)** has done internship at Mastercard Technology Private Limited from May 4, 2020 to May 29, 2020 on **Operations and Technology** under the guidance of **Hariom Gupta**.

We take this opportunity to thank her and wish her all the best for her future endeavors.

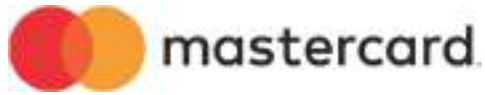
Yours faithfully,

A handwritten signature in blue ink, appearing to read "D.A. Singh", is written over a vertical line. To the right of the line is a circular official stamp in purple ink, containing the text "PUNE" and other illegible details.

For: Mastercard Technology Private Limited  
People.services@mastercard.com  
Global Business Services Center - HR Services

**Mastercard Technology Private Limited** Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006

Formerly known as ElectraCard Services Private Limited  
CIN - U72200PN2000PTC014585



June 11, 2020

**To Whom It May Concern**

**EXPERIENCE CERTIFICATE**

This is to certify that **somya pathak (EE ID 104895)** has done internship at Mastercard Technology Private Limited from May 4, 2020 to May 29, 2020 on **Operations and Technology** under the guidance of **Subrat Das**.

We take this opportunity to thank her and wish her all the best for her future endeavors.

Yours faithfully,

A handwritten signature in blue ink, appearing to read "D. A. Singh", is written to the left of a circular official stamp. The stamp is purple and contains the text "PUNE" in the center, surrounded by a circular border with some illegible text.

For: Mastercard Technology Private Limited  
People.services@mastercard.com  
Global Business Services Center - HR Services

**Mastercard Technology Private Limited** Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006

Formerly known as ElectraCard Services Private Limited  
CIN - U72200PN2000PTC014585

Microsoft India (R&D) Pvt. Ltd.  
Prestige Ferns Galaxy  
Survey No, 7/1, 7/2 & 8/1A  
Ambalipura Village, Varthur Hobli  
Outer Ring Road, Bengaluru 560103



Tel + 91 8061772000  
<http://www.microsoft.com/india>



**Date: 03-Jul-2020**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Poorva Bhalerao** from the **Cummins College** has successfully completed her Internship on “**Add-in installation recommendations for users of the in-client Office app store**” in **Microsoft India (R&D) Pvt. Ltd., Bengaluru** from **11-May-20** to **03-Jul-20**. She has completed the internship under the guidance of **Abhisek Mandal and Abhisek Mandal**.

**We wish her all the best in her future endeavors.**

**Yours Sincerely,**

**For Microsoft India (R&D) Pvt. Ltd.**

A handwritten signature in blue ink, appearing to read "Ira Gupta".

**Ira Gupta**  
**Sr HR Director**

HRM/COMM/HR0080238  
August 25, 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Gauri Deshmukh**, a student at **Cummins College of Engineering for Women, Pune** has completed her academic project **Farmer's Buddy** under the guidance of **Raja Ganesan** from **5/25/2020** to **8/21/2020**

This certificate is issued to **Gauri Deshmukh** with reference to the partial fulfillment of the requirements of the University and no other obligations on the part of Mphasis.

We wish her all the best for her future endeavors.

For Mphasis Limited,



**Mohammed Najeebuddin**  
**Human Resources**

Date: 19 May 2020

Dear Chaitanyasuma

**Jain, Congratulations!**

We are very pleased to offer you an **Internship** with **Quick Ride** in the Engineering department. The typical intern responsibilities include developing software applications, primarily on the frontend, and experimenting with design elements. However, given your high caliber, we expect your contributions to stretch across all functional areas of the product and are confident you'll add great value to every part of the project.

**Please find the following terms of this internship offer:**

1. The Stipend paid would be Rs 18,000/Month.
2. You are also allowed for a performance-based incentive of Rs. 9,000. (Subject to certain criteria such as timely completion of Project and Internship)
3. The internship duration is 2 months. Your start date will be informed by the Reporting Manager. This duration can be extended if mutually agreed by both sides.

**Supervisor: You will be reporting to Mr. Jai Srivastava**

Should you have any questions regarding the specifics of your internship, please contact me on **+91 9032041420** or **by email [biraj@quickride.in](mailto:biraj@quickride.in)**

We request you to sign the offer letter below.

We wish you good luck and all the best for your internship and really look forward to having on-board.

Thanks & Regards,



**Biraj Patnaik**  
Head – Human Resources.

**Intern Name:**

**Ms. Chaitanyasuma Jain**

**Signature:**



**Date:**

**23 May 2020**

**College ID #**

**C22017221279**

**Mobile Number**

**+91 98602 98619**





CIN: U72900PN2016PTC167319

<http://rssquarz.in/>

302, Gloria, Mohan Nagar, Baner, Pune, India. Pin Code – 411045.

---

## **Internship Certificate**

### **To Whomsoever it may concern**

This is to certify that **Miss. Aditi Prakash Khose** Final Year BE. Student of **MKSSS Cummins College of engineering for Women, Pune** was Working on the Industrial Project "**E-commerce and CRM - Analytics and Insights**" and was working as an intern with **RSSquarz Tech Solutions Pvt. Ltd.**

Duration of the internship is from **01-June-2020** to **30-June-2020**.

We found her very sincere and hard-working during her internship period. She was punctual and inquisitive toward her work.

**For RSSquarz Tech Solutions Pvt. Ltd.**

Swapnil Shende

Director



SAP LABS. Bangalore.

**SAP Labs India Pvt. Ltd.**  
138, Export Promotion  
Industrial Park, WhiteField,  
Bangalore – 560 066. India  
T: +91-80-4139 5139  
F: +91-80-4139 6969  
[www.sap.com](http://www.sap.com)

10 June 2020

**Private & Confidential**

Neha Tirumalasetti  
A1/302, Park Island  
Shastri Nagar, Yerawada, Pune  
Maharashtra 411006 India  
+917720075553

Dear Neha ,

Subsequent to the interview you had with us, I am pleased to inform you that you have been selected as **Diploma Student / Intern** for a period of 2 months with SAP Labs India Pvt Ltd., starting from 12 June 2020 to 14 August 2020. Congratulations!

You would receive a stipend of Rs 35000 per month during the period of your training (TDS would be deducted as per Income Tax rules and regulations).

Kindly acknowledge the enclosed copy of this letter as a token of acceptance and return to us at the earliest.

You are required to provide your PAN number and Bank details within 10 days of your date of joining as they are mandatory.

We would be pleased to furnish you with any further information or clarify your queries. We congratulate you once again on your success.

Looking forward to a mutually rewarding association.

Best regards,

For **SAP Labs India Pvt. Ltd.**

**Shraddhanjali Rao**  
**Head of HR, India**  
SAP India Pvt Ltd

**Sabish Kovath Bhaskar**  
**HR Services Senior Consultant**  
HR Services Centre, SAP India Pvt Ltd

I accept the terms & conditions of service outlined above

.....  
**Neha Tirumalasetti**

.....  
**Date**

# STACKZEAL PRIVATE LIMITED

Regd Office: Sr. No. K/2/971, Pragati  
Colony A, Vikas Nagar, Nigdi-Kiwale,  
Pune – 412101.  
CIN : U80901PN2018PTC180441  
GSTIN: 27ABBCS1964Q1ZP  
09762352469  
[info@stackzeal.com](mailto:info@stackzeal.com)

Date: 11<sup>th</sup> July, 2020

## To Whomsoever It May Concern

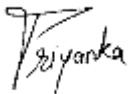
This is to certify that **Miss. Siddhi Uday Sawant** had worked with Stackzeal private limited - EngineersConnect As a “**Digital Marketing Intern**” From **19<sup>th</sup> February 2020 to 7<sup>th</sup> May 2020**

We Appreciate the Hard work taken, and will like to share that above mentioned is a quick learner with the ability to encounter new skills and understand the task quickly. She took care of multiple roles like promoting and marketing brand on social media, making graphics, and most brilliant work of her was writing blogs on wordpress.

*Stackzeal private limited – EngineersConnect Wishes you a very bright future.*

Thank You.

For any queries feel free to write me at the below mentioned address.



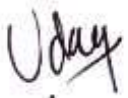
Priyanka Shahasane,  
[priyanka@engineersconnect.com](mailto:priyanka@engineersconnect.com)  
(Community Manager, EngineersConnect - StackZeal Private Limited)

# Certificate of Completion

This certificate is awarded to

**Tanya Sikarwar**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

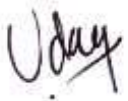
July 2020

# Certificate of Completion

This certificate is awarded to

**Pranoti Pote**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

July 2020



**UBS Business Solutions (India) Pvt. Ltd.**  
(CIN: U74999PN2015FTC157258)  
9th & 10th Floor,  
Tower-A, EON Park II, EON Free Zone II  
Kharadi,  
Pune 411014, Maharashtra, India  
Tel: +91-20-67421500  
[www.ubs.com](http://www.ubs.com)

22 May 2020

**PRIVATE & CONFIDENTIAL**

Ms. Aarya Vinay Kulkarni

Dear Aarya,

Following our recent discussions, we are pleased to offer you a summer intern position in our Technology Department with UBS Business Solutions (India) Private Limited ("the Firm") under the following terms and conditions set out below (this "Agreement").

In this Agreement, the term "UBS Group" means UBS Group AG and its subsidiaries and any branches, business divisions and affiliates thereof wherever incorporated or carrying on business, including the Firm, and "Group Company" means any company within the UBS Group.

**1 Assignment Period and Reporting**

Your internship assignment will be for the period from 9 June 2020 to 31 July 2020, or an alternate period/date mutually agreed by you and the Firm. You will report to Jagannathan Manoharan, Director, Technology, or such other executive as may be nominated from time to time.

**2 Duties and Hours of Work**

Your responsibilities and duties would be intimated to you upon the commencement of your internship assignment. In general, you will be required to work, from Monday to Friday and your actual working hours shall not be less than 40 hours per week including lunchtime, and if necessary on Public holidays or for additional hours as required for performing your duties competently and also depending upon the exigencies of work.

You shall, while undertaking your internship duties, devote the whole of your time and attention and abilities to the Firm and any other Group Company and shall use your best endeavours to promote and protect the general interests and welfare of the Firm and any other Group Company to which you may from time to time render your services.

**3 Internship Allowance**

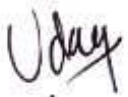
Your internship allowance has been set to the monthly rate of INR25,000/- per month.

# Certificate of Completion

This certificate is awarded to

**Tanvi Vaishnav**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

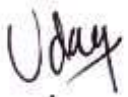
July 2020

# Certificate of Completion

This certificate is awarded to

**Shreeya Patil**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

July 2020

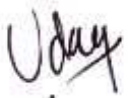


# Certificate of Completion

This certificate is awarded to

**Sanjyot Sathe**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

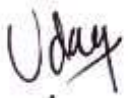
July 2020

# Certificate of Completion

This certificate is awarded to

**Mrinali Jaiswal**

For successfully completing the 2020 Summer Technology Internship Program at UBS India from 9<sup>th</sup> June 2020 to 31<sup>st</sup> July 2020.



Uday Odedra  
Managing Director,  
Head of APAC Technology



Ashish Mishra  
Executive Director,  
Tech India Graduate Program Sponsor

July 2020

Salarpuria Hallmark,  
Ground Floor, A-Block  
Survey No. 15/3 and 16/5  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

Salarpuria Touchstone,  
3<sup>rd</sup> Floor, Block B,  
15/1A, 14P7,  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

**Date : 24-Aug-2020**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Ms. Akanksha Mishra** student of **Cummins, Pune**, has successfully completed the internship program from **02-Jun-2020** to **21 Aug 2020** with us under the guidance of **Nirbhay Pratap Singh, Senior Manager I, Data Engineering**.

We wish all the success in pursuit of her academic achievements and professional career.

for **WM Global Technology Services India Pvt. Ltd.,**



**Akash Gupta**

**Director, Total Rewards & HR Operations**

**WM Global Technology Services India Private Limited**

Regd. Office: 3<sup>rd</sup> Floor, Block B, Salarpuria Touchstone, 15/1A, 14P7, Kadubeesanahalli, Outer Ring Road, Bangalore - 560103  
Phone 91.80.40358008, Fax 91.80.40358000  
www.walmart.com  
CIN-U72200KA2011PTC059719

Salarpuria Hallmark,  
Ground Floor, A-Block  
Survey No. 15/3 and 16/5  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

Salarpuria Touchstone,  
3<sup>rd</sup> Floor, Block B,  
15/1A, 14P7,  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103


**Date : 07-Sep-2020**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Ms. Kinjal Parikh** student of **Cummins, Pune**, has successfully completed the internship program from **02-Jun-2020** to **07 Aug 2020** with us under the guidance of **Vikram Garudanagiri Datta, Senior Manager II, Data Engineering**.

We wish all the success in pursuit of her academic achievements and professional career.

for **WM Global Technology Services India Pvt. Ltd.,**



**Akash Gupta**

**Director, Total Rewards & HR Operations**

**WM Global Technology Services India Private Limited**

Regd. Office: 3<sup>rd</sup> Floor, Block B, Salarpuria Touchstone, 15/1A, 14P7, Kadubeesanahalli, Outer Ring Road, Bangalore - 560103  
Phone 91.80.40358008, Fax 91.80.40358000  
www.walmart.com  
CIN-U72200KA2011PTC059719

Salarpuria Hallmark,  
Ground Floor, A-Block  
Survey No. 15/3 and 16/5  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

Salarpuria Touchstone,  
3<sup>rd</sup> Floor, Block B,  
15/1A, 14P7,  
Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

**Date : 07-Sep-2020**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Ms. Radha Marathe** student of **Cummins, Pune**, has successfully completed the internship program from **02-Jun-2020** to **07 Aug 2020** with us under the guidance of **B S Prabhakar, Senior Director I, Software Engineering**.

We wish all the success in pursuit of her academic achievements and professional career.

**for WM Global Technology Services India Pvt. Ltd.,**



**Akash Gupta**

**Director, Total Rewards & HR Operations**

**WM Global Technology Services India Private Limited**

Regd. Office: 3<sup>rd</sup> Floor, Block B, Salarpuria Touchstone, 15/1A, 14P7, Kadubeesanahalli, Outer Ring Road, Bangalore - 560103  
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Salarpuria Hallmark,  
Ground Floor, A-Block  
Survey No. 15/3 and 16/5  
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3<sup>rd</sup> Floor, Block B,  
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Kadubeesanhalli,  
Outer Ring Road  
Bangalore-560103

**Date : 07-Sep-2020**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Ms. Darshita Kumar** student of **Cummins, Pune**, has successfully completed the internship program from **02-Jun-2020** to **14 Aug 2020** with us under the guidance of **Ravi Subramaniam Iyer, Director, Software Engineering / Strategy**.

We wish all the success in pursuit of her academic achievements and professional career.

for **WM Global Technology Services India Pvt. Ltd.,**



**Akash Gupta**

**Director, Total Rewards & HR Operations**

**WM Global Technology Services India Private Limited**

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# CENTRE FOR POLICE RESEARCH, PUNE

CHAVAN NAGAR, PASHAN ROAD, PUNE-411008.

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FAX NO. : 020-25653696

E-MAIL : director.cprpu-mh@gov.in

WEBSITE : www.cprpune.org

O.W. No. / CPR/ 172/2021/Pune

Date: 01/07/2021

## Consultancy Project Completion Certificate

To whomsoever it may concern

This is to certify that **Mrs. Suchitra Morwadkar** has successfully completed the consultancy project on "**Visitor Management System**" during the period 2019-20 successfully for Center for Police Research, Pune.

All the required deliverables are successfully submitted by her.



(**Shirish Sardeshpande**)  
Superintendent of Police  
Centre for Police Research,  
Pune.



# CENTRE FOR POLICE RESEARCH, PUNE

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O.W. No. / CPR/ 168 /2021/Pune

Date: 01/07/2021

## Consultancy Project Completion Certificate

To whomsoever it may concern

This is to certify that **Dr.Sneha Thombre** has successfully completed the consultancy project on "**E-Procurement System for Police Department**" during the period 2019-20 successfully for Center for Police Research, Pune.

All the required deliverables are successfully submitted by her.



*Shirish Sardeshpande*  
(Shirish Sardeshpande)  
Superintendent of Police  
Centre for Police Research,  
Pune.