



TechieNest Pvt. Ltd.

Transforming Engineers to Technocrats

To whom so ever it may concern

This is to certify that **Ms. Aayushi**, B.tech 4th year, Mechatronics Branch, student of **Banasthali University, Rajasthan**, has successfully completed 5.5 month Industrial Project based Internship in **Machine Learning** at **TechieNest Pvt Ltd**, from **5th August, 2020 to 20th December 2020**.

During the internship she demonstrated good technical skills with a self-motivated attitude to learn new in Technical era. She successfully completed her projects on time.

Projects Title- 1. Smart Weather application using Machine Learning

2. Excel Clone

Points of Evaluation	Max. Marks	Marks Obtained
Project Work	15	14
Assignment Completion	10	10
Attendance	10	10
Communication & presentation Skills	15	14

Internship Coordinator – Mr Saurabh Bhardwaj

We wish her all the best for her career.



Authorized Signature

Office:- 7 Jawahar Nagar Colony, Gate No. 1, Near Glass Factory, Tonk Road, Jaipur, Rajasthan, INDIA- 302015



CERTIFIED AUTOMATION ENGINEER



CIN: U80900RJ2019PTC063908

Certificate of Completion

During the Mecstech Industrial Automation Training, Administered by the

Undersigned trainer, the student was able to proficiently:

Industrial Automation Training on

- Allen Bradley (Micro logix 1000)
- Siemens (S-7 1200)
- Mitsubishi
- Delta
- SCADA
- AC Drives
- Control Panel Designing



Aditi Kulshrestha

Aditi Kulshrestha

Student Name :

Banasthali Vidyapith

Banasthali Vidyapith

College Name :

1 July 2020 to 10 Dec. 2020

Training Date :

Mecstech Industrial Training (P) ltd, Ajmer

Location

MIT-TR-20-AJM-62

Reference ID



ACC. No. NACI/109

www.merc.net.in

Authorized Signatures
Director



**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP)2020 ONLINE**



JUNE TO AUGUST, 2020

SL. NO.:CSIR/SRTP/2020/NEIST/0991.....

NAME:ADITL CHAUHAN.....

CSIR INDIA

Certificate of Training

Aditi Chauhan,

student of Banasthali Vidyapith, has successfully completed a eight weeks online training on **Programming with C and C++** . The training consisted of Getting Started With Programming in C, Diving Into C Programming, Fundamentals of Object Oriented Programming Using CPP, Diving into CPP Programming and Building Cricket Game Application modules. We wish Aditi all the best for the future.



Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2020-12-01

Certificate No.: ITN07101-1201-0004-0005-000000000000

For certificate authentication, please visit

<https://training.internshala.com/verify/certificate>



TO WHOM IT MAY CONCERN

It is certified that the Dissertation Report entitled “**BOLSTER**” which is being submitted by Ms. **Ajita Seth** in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology (Mechatronics) of Banasthali Vidyapith (Deemed University) (National University for Women’s Education) is a record of candidate’s own work carried out by her under my supervision and guidance. The matter embodied in this report has not been submitted for award of any other degree.

AIC Banasthali Vidyapith Foundation


- 29/10/2021

CEO

Signature & Seal of Supervisor

Mobile Robotics

Certificate No: 2020/IP/005

Date: 04/01/2021.

Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Akansha Jain** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned “**Design of Speed Controller for Electric Vehicle**”, under the guidance of Love Thakker, Founder and R&D Head, Mobile Robotics.

Stamp



Signature

Thakker L.D.

Love Thakker
R&D Head, Mobile Robotics

Love Thakker
Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: Embedded systems / Robotics

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle, Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
सीएसआईआर - राष्ट्रीय विज्ञान, प्रौद्योगिकी और विकास अध्ययन संस्थान (निस्टैड्स)
पूसा गेट, डा० के० एस० कृष्णन मार्ग, नई दिल्ली-110022



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
CSIR - NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES (NISTADS)

Pusa Gate, Dr. K.S. Krishnan Marg, New Delhi-110012

Dated: 04.01.2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Akriti Mendiratta student of B.Tech. (Mechatronics Engineering) from school of AUTOMATION BANASTHALI VIDYAPITH BANASTHALI has successfully completed training from July- December 2020 at National Institute of Science, Technology and Development Studies.

She worked under the topic "FRAMEWORK ANALYSIS OF COVID-19 DATABASE THROUGH VISUALISATION TOOLS" which involved her to research in various aspects.

She has successfully completed her training. During the time of her internship program with us she was found punctual, hardworking and inquisitive.

This certificate is being issued to her on her own request.

We wish her every success in life.

Authorized Signature

Head PME
National Institute of Science
Technology & Development Studies
Dr. K. S. Krishnan Marg, Pusa, N. Delhi-12

Supervisor Signature
(Dr.MADHULIKA BHATI)
CSIR-NISTADS
(Principal Scientist
& Deputy head, PME)



विद्युत अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय)
वाराणसी



DEPARTMENT OF ELECTRICAL ENGINEERING
Indian Institute of Technology (Banaras Hindu University) Varanasi

Rakesh Kumar Misra, Professor

राकेश कुमार मिश्र, आचार्य

To whom it may concern

This is to certify that **Ms. Anamika Jha** (Roll No. BTBTR17074) a student of B. Tech., Mechatronics Engineering, Banasthali Vidyapeeth, Tonk, Rajasthan worked on her final year project entitled "**Active Disturbance Rejection Control (ADRC) with an Automatic Parameter Tuning Mechanism using Computational Intelligence Optimization**" under my supervision during 28 July 2020 to 10 December 2020.

Her performance in the project was very good. I wish her all the success in her future endeavours.


राकेश मिश्र
11 DEC 2020

Rakesh Kumar Misra / राकेश कुमार मिश्र

Professor, Department of Electrical Engineering / आचार्य, विद्युत अभियांत्रिकी विभाग
IIT (BHU) Varanasi / भारतीय प्रौद्योगिक संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी
Varanasi, Uttar Pradesh - 221005 INDIA / वाराणसी, उत्तर प्रदेश - 221005 भारत
rkmisra.eee@iitbhu.ac.in

Mobile Number / दूरभाष संपर्क : +91-9450-950-265



IYSERT ENERGY RESEARCH PRIVATE LIMITED

MNRE & ISO 9001:2015 Company

CIN -U72900UR2014PTC001344

*Awarded International Asian Business Leadership Award 2017 , Singapore || Listed Top 50 companies in CNBC ABLA 2017 , Shanghai

Date: 22.11..2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Ananya Trivedi**, studying **B.Tech, Mechatronics at Banasthali Vidyapith, Newai, Rajasthan** has done her internship in the below stated projects at IYSERT Energy Research Private Limited from 22 JUNE 2020 to 22 of NOVEMBER 2020:

- **Solar Wind Hybrid Power Systems**

During the internship she demonstrated good innovative skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and she was able to complete the project work within the stipulated time period. We had Provided Stipned of Rs 6000/-pm during the period of Internship .

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


Director

RAKESH BISWAS
Chairman,
IYSERT Energy Research Private Limited.



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
सीएसआईआर—राष्ट्रीय विज्ञान, प्रौद्योगिकी और विकास अध्ययन संस्थान (निस्टैड्स)
पूसा गेट, डा. के. एस. कृष्णन मार्ग, नई दिल्ली-110012



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
CSIR - NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES (NISTADS)
Pusa Gate, Dr. K.S. Krishnan Marg, New Delhi-110012

डॉ. रंजना अग्रवाल
निदेशक
Dr. Ranjana Aggarwal
Director

Dated: 21.12.2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Anchal Rautela a student of B.Tech. (Mechatronics Engineering) from School of Automation Banasthali Vidyapith, Banasthali has successfully completed training from July-December 2020 at National Institute of Science, Technology and Development Studies.

She worked under the topic "VIRTUAL WATER TRADE AND VIRTUAL WATER FOOTPRINT ANALYSIS REGIONAL TO GLOBAL SCALE" which involved her to research in various aspects.

She has successful completed his training. During the time of her internship program with us she was found punctual, hardworking and inquisitive.

This certificate is being issued to her on her own request.

We wish her every success in life.


21.12.2020

Supervisor Signature
(Dr. Shivnaryan Nishad)
CSIR-NISTADS



Authorized Signature.



Head PME
National Institute of Science
Technology & Development Studies
Dr. K. S. Krishnan Marg, Pusa, N. Delhi-12

Certificate

Industrial Internship in Automation Technology

ANUSHKA MISHRA (BTBTR17049)

has successfully completed **Four Weeks Internship** from 04/07/20 to 07/08/20 in the area of **Industrial Automation** organized at RNSIT-Bosch Rexroth Centre of Excellence in Automation Technology, Bangalore with following contents:

1. Programmable Logic Controller (PLC)

- Fundamental of PLC
- PLC Programming
- Overview of Industrial Applications

2. Industrial Pneumatics

- Basic Pneumatics
- Electro Pneumatics

3. Industrial Hydraulics

- Basic Hydraulics
- Electro Hydraulics

4. Real time PLC controlled Pneumatics and Hydraulics case study.



Mr. Dharendra Gandhi
General Manager
Service and Training
Bosch Rexroth
India



Cert. No :- CRISP/20/2354/ONL08/00367

Reg. ID :- 2020/JSEEMTON/01/1

CRISP

ISO 9001 : 2015

**CENTRE FOR RESEARCH AND
INDUSTRIAL STAFF PERFORMANCE**

Certificate

Ms Anushka Mishra, D/o Mr Ajay Kumar Mishra

has successfully completed Internship on

“Mechatronics”

organized from 03-08-2020 to 04-12-2020

PIYUSH JAIN

Course Co-ordinator

Chief Executive Officer

Issue Date :-04-12-2020

(Established Under Indo-German Technical Co-operation)

Opp. Manas Bhawan, Shyamla Hills, Bhopal – 462002, Madhya Pradesh, India

Ph.: 0755-2661401, 4223702, FAX: 0755-4220022,

Website: www.crispindia.com , e-mail: crisponline@crispindia.com

Mobile Robotics

Certificate No: 2020 | IP | 006

Date: 04/01/2021.

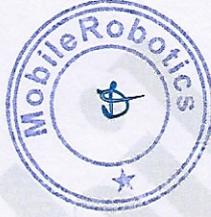
Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Avi Bharti Tyagi** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned "**Design of Speed Controller for Electric Vehicle**", under the guidance of **Love Thakker, Founder and R&D Head, Mobile Robotics.**

Stamp



Signature

Thakker L.D.

Love Thakker

R&D Head, Mobile Robotics

Love Thakker

Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: Embedded systems / Robotics

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle, Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683



विद्युत् अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय)
वाराणसी



DEPARTMENT OF ELECTRICAL ENGINEERING
Indian Institute of Technology (Banaras Hindu University) Varanasi

Rakesh Kumar Misra, Professor

राकेश कुमार मिश्र, आचार्य

To whom it may concern

This is to certify that **Ms. Ayushi Paliwal** (Roll No. BTBTR17043) a student of B. Tech., Mechatronics Engineering, Banasthali Vidyapeeth, Tonk, Rajasthan worked on her final year project entitled "**Path Planning of Mobile Robots Using Computational Intelligence Optimization**" under my supervision during 28 July 2020 to 10 December 2020.

Her performance in the project was very good. I wish her all the success in her future endeavours.


राकेश कुमार मिश्र
11 DEC 2020

Rakesh Kumar Misra / राकेश कुमार मिश्र

Professor, Department of Electrical Engineering / आचार्य, विद्युत् अभियांत्रिकी विभाग
IIT (BHU) Varanasi / भारतीय प्रौद्योगिक संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी
Varanasi, Uttar Pradesh - 221005 INDIA / वाराणसी, उत्तर प्रदेश - 221005 भारत
rkmisra.eee@iitbhu.ac.in

Mobile Number / दूरभाष संपर्क : +91-9450-950-265



Passion.Innovation.Knowledge

TAC AUTOMATION PVT. LTD.

www.tacautomation.com

TO WHOM IT MAY CONCERN

Date: - 2.12.2020

To,

Mr.Chandraveer Singh /Mr. Rahul Katiyar

Dept: - Mechatronics

College: - Banasthali Vidyapith, Jaipur

Subject: - Appreciation AND Completion of Internship

Dear Bhagyashree Deshmukh

This letter of appreciation is to applaud your dedicated efforts and commitment towards the internship project completed by you in Our Organization. We really appraise your internship project that was done on understanding the latest technology. You completed 6 Months of internship successfully (Duration 2.07.2020 to 2.12.2020) and the reports and outcomes of your projects are astonishing.

Your internship reports have been appraised and appreciated by the entire technical team and they are amazed to see such great work from an internship trainee. You seem to have enormous interest and skills in Automation, Robotics and Mechatronics field, which gets reflected in your work. Your academic training and understanding about automation principal is also very high standards.

Our Company appreciates your work and as a reward we have decided to offer you a position of Engineer-Trainee in Our organization. We believe that you would be a great value addition to entire Project Team and your knowledge will help in overall growth and development of our organization.

We wish for your Success, Happiness and a good health for your Life.



Regards

Anupam Sharma

Director

TAC Automation Pvt. Ltd.



Date:8-October-2020

Subject: Internship Completion Certificate

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Bhavya Bhatnagar** has successfully completed an internship with Astorianz Industries Pvt. Ltd. as an Intern from 10-July-2020 to 30 - September-2020.

She has worked on the Project “Front end development for company's official website” under my supervision and guidance. During the course of the internship, she has gained learning on strategic planning processes, effect of socio-macroeconomic factors on business planning and working collaboratively in a diverse project team.

Besides showing high comprehension capacity and managing assignments with dexterity, she has also maintained an outstanding professional demeanour and showcased moral character throughout the internship period.

I hereby certify her overall work well to the best of my knowledge.

Wishing her the best of luck for futures endeavours.

For Astorian’z Industries Pvt. Ltd.

Vivek Bagaria
Director

Mobile Robotics

Certificate No: 2020 | IP | 004

Date: 04/01/2021.

Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Deeksha Rastogi** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned "**Rumee – The Roommate Robot**", under the guidance of **Love Thakker**, Founder and R&D Head, Mobile Robotics.

Stamp



Signature

Thakker L.D

Love Thakker

R&D Head, Mobile Robotics

Love Thakker

Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: IOT / Robotics

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle, Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683



विद्युत अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय)
वाराणसी



DEPARTMENT OF ELECTRICAL ENGINEERING
Indian Institute of Technology (Banaras Hindu University) Varanasi

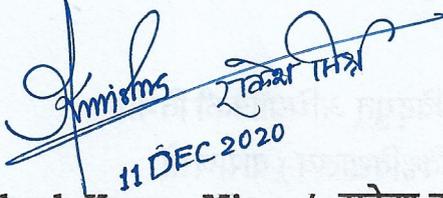
Rakesh Kumar Misra, Professor

राकेश कुमार मिश्र, आचार्य

To whom it may concern

This is to certify that **Ms. Divyanshi** (Roll No. BTBTR17021) a student of B. Tech., Mechatronics Engineering, Banasthali Vidyapeeth, Tonk, Rajasthan worked on her final year project entitled "**Mechanical and Control Oriented Design of a Piezo-Electric Micro-gripper.**" under my supervision during 28 July 2020 to 10 Dec 2020.

Her performance in the project was very good. I wish her all the success in her future endeavours.


11 DEC 2020

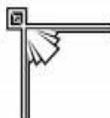
Rakesh Kumar Misra / राकेश कुमार मिश्र

Professor, Department of Electrical Engineering / आचार्य, विद्युत् अभियांत्रिकी विभाग
IIT (BHU) Varanasi / भारतीय प्रौद्योगिक संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी
Varanasi, Uttar Pradesh - 221005 INDIA / वाराणसी, उत्तर प्रदेश - 221005 भारत
rkmisra.eee@iitbhu.ac.in

Mobile Number / दूरभाष संपर्क : +91-9450-950-265



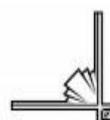
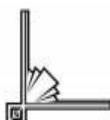
**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP)2020 ONLINE**



JUNE TO AUGUST, 2020

SL. NO.: CSIR/SRTP/2020/NEIST/1984

NAME: GEETA KUMARI



**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP)2020 ONLINE**



**CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)
2020 ONLINE HAS THE FOLLOWING ACTIVITIES**

Eminent Scientist Lectures, Special Sessions, Project specific classes, Elocution video, Poster designing, Essay writing, Assignments / Project works given by mentor/coordinator & Summer Research Project Completion Report

CANDIDATE'S NAME: GEETA KUMARI SL. NO.: CSIR/SRTP/2020/NEIST/1984

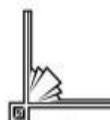
GRADE: A

HOST INSTITUTE: CSIR-NEIST

MENTOR'S NAME: SELVA KUMAR C.

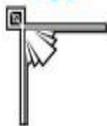
REMARKS

MENTOR





**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP)2020 ONLINE**



CERTIFICATE

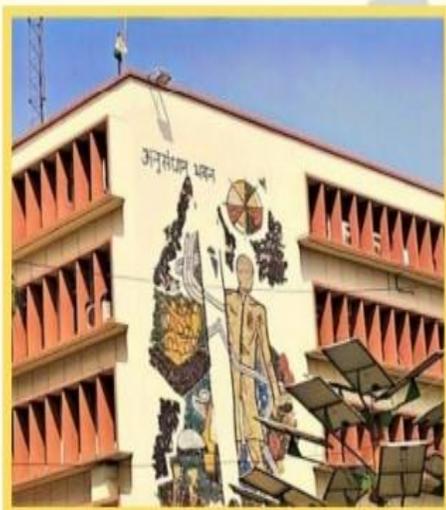
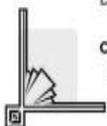
Name: GEETA KUMARI **SI. No.:** CSIR/SRTP/2020/NEIST/1984

has completed all the requirements of the CSIR-Summer Research Training Program (CSIR-SRTP) 2020 **online** during June to August, 2020 coordinated by CSIR-NEIST, Jorhat

DR. G. NARAHARI SASTRY
DIRECTOR
CSIR-NORTH EAST INSTITUTE OF
SCIENCE AND TECHNOLOGY

PROF. ALOK DHAWAN
DIRECTOR
CSIR-INDIAN INSTITUTE OF
TOXICOLOGY RESEARCH

DR. SHEKHAR C. MANDE
DIRECTOR GENERAL, CSIR
SECRETARY, DSIR, GOVT. OF INDIA



One day workshop on Artificial Intelligence in Drug Discovery



Sl. No. AIDD2563

Organized by
CSIR-North East Institute of Science & Technology



Certificate of Participation

This is to certify that

GEETA KUMARI

*has participated in the
one day workshop on "Artificial Intelligence in Drug Discovery" organized by
CSIR-North East Institute of Science and Technology, Jorhat on 01-09-2020.*

Debabrata Das

Mr. Debabrata Das
Coordinator
CSIR-NEIST, Jorhat

Dr. G. Narahari Sastry
Director, CSIR-NEIST
Jorhat, Assam

Certificate of Training

Geeta Kumari,

student of Banasthali Vidyapith, has successfully completed a four weeks online training on **Internship & Job Preparation**. The training consisted of Getting Started with the Job Hunt, Building up your Gears and Going at the Front modules. We wish Geeta all the best for the future.


Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2020-11-20

Certificate no. : C8CDEBBE-A233-0337-99F6-0E96F54EDF17

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Geeta Kumari,

student of Banasthali Vidyapith, has successfully completed a six weeks online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models and Clustering (Unsupervised Learning) modules. We wish Geeta all the best for the future.


Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2020-11-02 Certificate no. : 8D1A09D1-C2F4-8F9D-5E8D-87E43FA35DC2
For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



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TAC AUTOMATION PVT. LTD.

www.tacautomation.com

TO WHOM IT MAY CONCERN

Date: - 2.12.2020

To,

Mr.Chandraveer Singh /Mr. Rahul Katiyar

Dept: - Mechatronics

College: - Banasthali Vidyapith, Jaipur

Subject: - Appreciation AND Completion of Internship

Dear.

Harshita Ghildiyal

This letter of appreciation is to applaud your dedicated efforts and commitment towards the internship project completed by you in Our Organization. We really appraise your internship project that was done on understanding the latest technology. You completed 6 Months of internship successfully (Duration 2.07.2020 to 2.12.2020) and the reports and outcomes of your projects are astonishing.

Your internship reports have been appraised and appreciated by the entire technical team and they are amazed to see such great work from an internship trainee. You seem to have enormous interest and skills in Automation, Robotics and Mechatronics field, which gets reflected in your work. Your academic training and understanding about automation principal is also very high standards.

Our Company appreciates your work and as a reward we have decided to offer you a position of Engineer-Trainee in Our organization. We believe that you would be a great value addition to entire Project Team and your knowledge will help in overall growth and development of our organization.

We wish for your Success, Happiness and a good health for your Life.



Regards

Anupam Sharma

Director

TAC Automation Pvt. Ltd.

Factory & Office Address: A-20, Phase II Noida 201305, GB Nagar, Uttar Pradesh

Email: sales@tacautomation.in, asharma@tacautomation.in

Website: www.tacautomation.com

भारत सरकार
अंतरिक्ष विभाग
भारतीय सुदूर संवेदन संस्थान
4, कालिदास मार्ग, पो. बाक्स सं. 135
देहरादून-248001, भारत
दूरभाष : +91-135-2524399
फैक्स : +91-135-2741987, 2748041



Government of India
Department of Space
Indian Institute of Remote Sensing
4, Kalidas Road, P.B. No. 135,
Dehradun - 248001, India
Telephone : +91-135-2524399
Fax : +91-135-2741987, 2748041

CERTIFICATE

This is to certify that **Ms. Hiral Koriya, B. Tech. (Mechatronics), Sem-V** student of Banasthali University, Rajasthan worked on her 5 months project work entitled "**Image Classification using Google Earth Engine**" under my guidance and supervision at Indian Institute of Remote Sensing, ISRO, Dehradun, Uttarakhand during July – December 2020.

I wish her success in her future endeavors.

Dr. Vandita Srivastava
Scientist/Engineer - 'SF' &
In-charge, PPEG-Academics & RESPOND,

Dated: December 31, 2020



CERTIFIED AUTOMATION ENGINEER



CIN: U80900RJ2019PTC063908

Certificate of Completion

During the Mecstech Industrial Automation Training, Administered by the

Undersigned trainer, the student was able to proficiently:

Industrial Automation Training on

- Allen Bradley (Micro logix 1000)
- Siemens (S-7 1200)
- Mitsubishi
- Delta
- SCADA
- AC Drives
- Control Panel Designing



Janvi Tak

Student Name :

Banasthali Vidyapith, Rajasthan

College Name :

15 July 2020 to 15 Dec. 2020

Training Date :

Mecstech Industrial Training (P) ltd, Ajmer

Location

MIT-TR-19-AJM-50

Reference ID



www.merc.net.in

Authorized Signatures
Director

Mobile Robotics

Certificate No: 2020/IP/001.

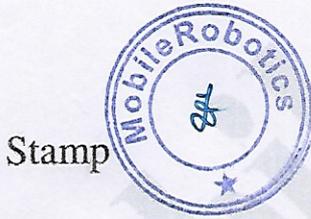
Date: 4/01/2021

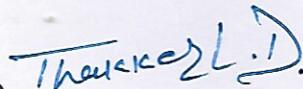
Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Krati Singh Sengar** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned "**TOBO- Ver: 3.0 – Humanoid Service Robot**", under the guidance of **Love Thakker, Founder and R&D Head, Mobile Robotics.**



Signature 
Love Thakker
R&D Head, Mobile Robotics
Love Thakker
Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: IOT / Robotics

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle,
Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683

Telephone - (91) (020) 27044000
- (91) (020) 27150881
- (91) (020) 27150577
- (91) (020) 27150350
Fax (91) (020) 27044009
E-mail - director@rde.drdo.in



भारत सरकार, रक्षा मंत्रालय,
Government of India, Ministry of Defence,
रक्षा अनुसंधान तथा विकास संगठन
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

TO WHOMSOEVER IT MAY CONCERN

STUDENT PROJECT: COMPLETION CERTIFICATE

This is to certify that the Project Titled: "INDOOR NAVIGATION OF AUTONOMOUS GUIDED VEHICLE" has been successfully completed by the following student of BANASTHALI VIDYAPITH, RAJASTHAN:-

1. **Ms KRITIKA GOEL** Roll No **1713092**

under the guidance of Ms/Mr CHANDRAJIT GANGULY at Research & Development Establishment (Engineers), Pune-15 as partial fulfillment of the requirements for the degree of Bachelor of Engineering in Mechatronics of BANASTHALI VIDYAPITH, RAJASTHAN during the academic year 2020-2021

Signature of R&DE (E) Project Guide:

Dated: 18th Dec, 2020

Name: Chandrajit Ganguly

PLACE: Pune - 411015

Designation: Scientist "D"

COUNTERSIGNATURE

Sc 'F'
(M. K. Roy)

GD/HEAD IMSG, HRD
R&DE (ENGRS) DIGHI, PUNE-15



TechieNest Pvt. Ltd.

Transforming Engineers to Technocrats

To whom so ever it may concern

This is to certify that **Ms. Lovely Ghosh**, B.tech 4th year, Mechatronics Branch, student of **Banasthali University, Rajasthan**, has successfully completed 5.5 month Industrial Project based Internship in **Machine Learning** at **TechieNest Pvt Ltd**, from **5th August, 2020 to 20th December 2020**.

During the internship she demonstrated good technical skills with a self-motivated attitude to learn new in Technical era. She successfully completed her projects on time.

Projects Title- 1. Facial Recognition to detect mood and suggest songs accordingly
2. Real time face mask detector

Points of Evaluation	Max. Marks	Marks Obtained
Project Work	15	13
Assignment Completion	10	7
Attendance	10	8
Communication & presentation Skills	15	13

Internship Coordinator – Mr Saurabh bhardwaj

We wish her all the best for her career.



Authorized Signature

Office:- 7 Jawahar Nagar Colony, Gate No. 1, Near Glass Factory, Tonk Road, Jaipur, Rajasthan, INDIA- 302015

SP
SOLUTION
GROUP

SP SOLUTION GROUP

Date- 12/Dec/2020

TO WHOM SO EVER IT MAY CONCERN

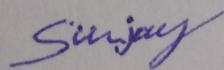
This is to Certify that Ms. Mahima Chaturvedi D/o Mr. Sunil Kumar a student of Mechatronics Engineering of "Banasthali Vidyapith, Rajasthan" has successfully Completed " Internship program on Product Design and Reverse Engineering" in which she has been worked on Study of Hand mixer product design and did reverse engineering in Solidworks.

During the training she found very hardworking and Sincere w.e.f. 3rd -July, 2020 to 10th Dec, 2020.

Ms. Mahima Chaturvedi has completed her training successfully under the guidance of our designing team.

We wish her all the best for future.

Thanking you,



Sanjay Pandey

Design Manager

SP SOLUTION GROUP



Passion.Innovation.Knowledge

TAC AUTOMATION PVT. LTD.

www.tacautomation.com

TO WHOM IT MAY CONCERN

Date: - 2.12.2020

To,

Mr.Chandraveer Singh /Mr. Rahul Katiyar

Dept: - Mechatronics

College: - Banasthali Vidyapith, Jaipur

Subject: - Appreciation AND Completion of Internship

Dear Mansi

This letter of appreciation is to applaud your dedicated efforts and commitment towards the internship project completed by you in Our Organization. We really appraise your internship project that was done on understanding the latest technology. You completed 6 Months of internship successfully (Duration 2.07.2020 to 2.12.2020) and the reports and outcomes of your projects are astonishing.

Your internship reports have been appraised and appreciated by the entire technical team and they are amazed to see such great work from an internship trainee. You seem to have enormous interest and skills in Automation, Robotics and Mechatronics field, which gets reflected in your work. Your academic training and understanding about automation principal is also very high standards.

Our Company appreciates your work and as a reward we have decided to offer you a position of Engineer-Trainee in Our organization. We believe that you would be a great value addition to entire Project Team and your knowledge will help in overall growth and development of our organization.

We wish for your Success, Happiness and a good health for your Life.



Regards
Anupam Sharma
Director
TAC Automation Pvt. Ltd.

Mobile Robotics

Certificate No: 2020 / I / 008

Date: 04/01/2020.

Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Mansi Kukreja** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned "**Sunny : Smart Home Automation**", under the guidance of **Love Thakker**, Founder and R&D Head, Mobile Robotics.

Stamp



Signature *Thakker L.D.*

Love Thakker

R&D Head, Mobile Robotics

Love Thakker

Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: IOT / Embedded Systems

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle,
Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683

कृत्रिम ज्ञान तथा रोबोटिकी केन्द्र

रक्षा अनुसंधान तथा विकास संगठन

भारत सरकार – रक्षा मंत्रालय

डी.आर.डी.ओ कॉम्प्लेक्स, सी वी रामन नगर, बेंगलूर- 560093

फोन: 91-80-25244288, फैक्स: 91- 80-25244298

ईमेल: director@cair.drdo.in

आई. एस. ओ. 9001:2015 प्रमाणित केंद्र

सी.एम.एम.आई. डेव 1.3, परिपक्वता लेवल 2 मूल्यांकित केंद्र



CENTRE FOR ARTIFICIAL INTELLIGENCE AND ROBOTICS

Defence Research & Development Organisation

Government of India– Ministry of Defence

DRDO Complex, CV Raman Nagar, Bangalore- 560093

Tel: 91-80-25244288, Fax: 91-80-25244298

E-mail: director@cair.drdo.in

ISO 9001:2015 Certified Establishment

CMMI Dev 1.3, Maturity Level 2 Appraised Establishment

सभी पत्रादि निदेशक के पते से भेजे जाने चाहिए।
All correspondence to be addressed to the Director.

Certificate

This is to certify that the student **Muskan Khurana** from Banasthali Vidyapith has completed internship for one semester on “**Application of Deep Learning for Satellite Image Classification**”, at Centre for Artificial Intelligence and Robotics (CAIR).

Ambily P, Sc 'E'

Co-Supervisor

Dr Malay Kumar Nema, Sc 'F'

Supervisor

Place: Bengaluru

Date: 30-Sep-2020

Director CAIR should not be approached for any references or recommendations



सी.एस.आई.आर. राष्ट्रीय भौतिक प्रयोगशाला

CSIR - NATIONAL PHYSICAL LABORATORY

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

(Council of Scientific & Industrial Research)

डा० के. एस. कृष्णन् मार्ग, नई दिल्ली-110012, (भारत)

Dr. K. S. Krishnan Marg, New Delhi-110012, (INDIA)



Date: 10.12.2020

To Whomsoever It May Concern

This is to Certify that this dissertation entitled “EMI/EMC COMPLIANCE TESTING OF AI/IOT DEVICES UNDER EXTERNAL FIELDS” is authentic record of work carried out by **Miss Nandini Sharma** at CSIR-National Physical Laboratory under my supervision for her project work. This work fits for the submission towards the partial fulfilment for the award of the **B. Tech. (Mechatronics)** at **Banasthali Vidyapith**. I give my best wishes to her for all her future endeavours.


10.12.2020

(Dr. Satya Kesh Dubey)



सीएसआईआर केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय / MINISTRY OF SCIENCE & TECHNOLOGY, भारत सरकार / GOVT. OF INDIA)

पिलानी, राजस्थान (भारत) / Pilani, Rajasthan - 333031 (INDIA)



Dr. Suchandan Pal
Head, Project Monitoring & Evaluation
Chairman, International Science & Technology Affairs Group

No. PME\S\Trg\BU\2020

Date: 04/01/2021

To,

The Director
Banasthali Vidyapith,
P.O. Banasthali Vidyapith
Rajasthan – 304022

CERTIFICATE OF TRAINING

This is to certify that **Ms. Neha Kumawat, ID NO. BTBTR17045, B. Tech. (Mechatronics Engineering)** student of your Institute has completed her project work online at this Institute during **24th July, 2020 to 17th December, 2020**. Her project was on **“Feasibility Study of The TI Series Embedded Platforms for BLDC Hub Motor for Outdoor Mobility”**.

Her conduct during the training was satisfactory.

Head, PME

प्रमुख पी.एम.ई./Head PME
सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान
CSIR-Central Electronics Engineering Research Institute
पिलानी, राजस्थान/Pilani, Rajasthan-333031



सीएसआईआर केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय / MINISTRY OF SCIENCE & TECHNOLOGY, भारत सरकार / GOVT. OF INDIA)

पिलानी, राजस्थान (भारत) / Pilani, Rajasthan - 333031 (INDIA)



Dr. Suchandan Pal
Head, Project Monitoring & Evaluation
Chairman, International Science & Technology Affairs Group

No. PME\S\Trg\BU\2020

Date: 04/01/2021

To,

The Director
Banasthali Vidyapith,
P.O. Banasthali Vidyapith
Rajasthan – 304022

CERTIFICATE OF TRAINING

This is to certify that **Ms. Neha Shukla, ID NO. BTBTR17064, B. Tech. (Mechatronics Engineering)** student of your Institute has completed her project work online at this Institute during **25th July, 2020 to 25th December, 2020**. Her project was on **“Development of DC-DC convertor of EV charging applications”**.

Her conduct during the training was satisfactory.

Head, PME

प्रमुख पी.एम.ई./Head PME
सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान
CSIR-Central Electronics Engineering Research Institute
पिलानी, राजस्थान / Pilani, Rajasthan-333031

To Whom It May Concern

This is to certify that Ms. Neha Tyagi as a student of Banasthali Vidyapith, Rajasthan, has undergone her professional UIL Project Internship / training in our organization for the duration June-20 to Dec 20.

She has worked on a Project title “Automated Leak Detection” which is focused on designing an Economical & viable leak detector with ease of operation.

During her tenure, we found Ms. Neha Tyagi to be hard working, conscientious & a responsible trainee. The feedback of her participation has always been positive and wish her all the best in the future.

For EFFICOMP AIR AND ENERGY CONSULTING SERVICES



Authorized Signatory

DHIRENDRA SHUKLA



सी.एस.आई.आर. राष्ट्रीय भौतिक प्रयोगशाला

CSIR - NATIONAL PHYSICAL LABORATORY

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

(Council of Scientific & Industrial Research)

डा० के. एस. कृष्णन् मार्ग, नई दिल्ली-110012, (भारत)

Dr. K. S. Krishnan Marg, New Delhi-110012, (INDIA)



CERTIFICATE

This is to certify that **Ms. Nikita Paliwal (Banasthali Id.: BTBTR17034)** has successfully completed her project entitled “**Application of Mass Metrology for Societal Growth**” under the guidance of **Mr. Goutam Mandal**, Senior Principal Scientist & Head, Mass Metrology Section, CSIR-NPL, New Delhi during **13th July, 2020 to 15th December, 2020** through on-line. This work is carried out as partial fulfilment of the requirements for the award of the degree of **Bachelor of Technology in Mechatronics Engineering**, at Banasthali Vidyapith, Rajasthan and the report is submitted for record.


21/12/2020

(Goutam Mandal)

Supervisor

Senior Principal Scientist and Head,

Mass Metrology Section

CSIR - National Physical Laboratory

New Delhi

गौतम मंडल/Goutam Mandal
वरिष्ठ प्रधान वैज्ञानिक एवं प्रमुख/Senior Principal Scientist and Head
द्रव्यमान मापिकी अनुभाग/Mass Metrology Section
सी एस आई आर - राष्ट्रीय भौतिक प्रयोगशाला
CSIR - National Physical Laboratory
डॉ. के. एस. कृष्णन् मार्ग/Dr. K. S. Krishnan Marg
नई दिल्ली - 110012, भारत/New Delhi - 110 012, India



डॉ० रीना शर्मा /Dr. RINA SHARMA
वरिष्ठ प्रधान वैज्ञानिक एवं प्रमुख एच.आर.डी. ग्रुप
Sr. Principal Scientist & Head, HRD Group
सी एस आई आर-राष्ट्रीय भौतिक प्रयोगशाला
CSIR - National Physical Laboratory
डॉ० के. एस. कृष्णन् मार्ग, नई दिल्ली-110012
Dr. K. S. Krishnan Marg, New Delhi-110012

NATIONAL PHYSICAL LABORATORY

(HRD GROUP)

Endorsement No. 3500/2/2020

फैक्स / Fax : 91-11-45609310

Director Office : 45609201 / 45609301

COA's Office : 45609203

SPO's Office : 45608645 / 4560367

वेबसाईट / Website: www.nplindia.org

Certificate of Training

Palak Verma,

student of Banasthali University, has successfully completed a eight weeks online training on **Android App Development**. The training consisted of Introduction to Android, World of Kotlin, Android Kick-Off, Higher Order Functionalities and The Final Project modules. Palak is a top performer in the training. We wish Palak all the best for the future.



Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2020-10-05

Certificate no. : 369EDCBE-DF0D-78E8-A57A-3A15FF84F531

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate





CSIR - SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP) 2020 **ONLINE**



CERTIFICATE

PALAK VERMA

S.No.: CSIR/SRTP/2020/CBRI/CBRI-18

has successfully completed all the requirements of the CSIR - Summer Research Training Program (CSIR - SRTP) 2020 online during June to August 2020

CSIR- CENTRAL BUILDING RESEARCH INSTITUTE
Roorkee

DR. S. R. KARADE
SRTP-Coordinator
CSIR-CBRI, Roorkee

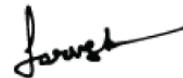


DR. N. GOPALAKRISHNAN
Director
CSIR-CBRI, Roorkee

Certificate of Training

Priya Shandilya,

has successfully completed a eight weeks online training on **Ethical Hacking**. In the training, Priya learned Basics of Information Security, Computer Networking and Web Development, Information Gathering and VAPT of some important vulnerabilities in the OWASP top 10, Automating VAPT, and Documenting and Reporting Vulnerabilities. Priya is a top performer in the training. We wish Priya all the best for the future.



Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2020-12-11

Certificate no. : 48CCEB1D-F61D-01C1-DD42-009EB129D195

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate





Certificate of Completion

Congratulations to

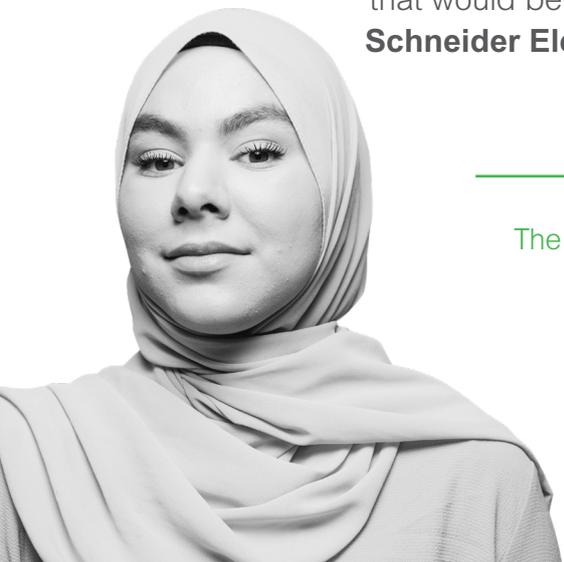
Priya Shandilya

for completing the
Global Virtual Student Experience
from June 2020 to August 2020.



This program is created to share our
Schneider Electric value of Learn Every Day.

Our courses and experience have been curated from our
employee learning library to help students develop skills
that would be useful in their careers, while being exposed to
Schneider Electric and the energy and automation industry.



The Global Virtual Student Experience Team

Life Is On

Schneider
Electric

INTERNSHIP COMPLETION CERTIFICATE

We here by certify that Ms. Priya Yadav D/o Mr. Sunil Yadav bearing Roll.No_1713105 under B.Tech program (MT) of Banasthali University. She had contributed and developed the **Home Automtion and Monitoring System** by her technical skills.

The candidate has acquired appropriate/significant skills required for working in Electronics Industry. Based upon Duration(From16thJuly2020 to 10th Dec2020) to internship period spent by her at the company, her skills are rated asbelow: -

Sr. No.	Type of Skills	Rating (Out of 10)
1.	Written communication skills*	10
2.	Oral communication skills	9
3.	Technical skills*	10
4.	Problem solving capability*	10
5.	Social skills*	9
6.	Discipline and punctuality*	10

We believe that she will be an asset to the organization she serves and works with same enthusiasm and zeal as shown here during hisinternship. We wish her great success in her career and life.

Sign.....

Name...Priya Yadav

Manager-HR/Training/Plant Head (Designation)
(competent authority with seal/stamp)



सीएसआईआर केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय / MINISTRY OF SCIENCE & TECHNOLOGY, भारत सरकार / GOVT. OF INDIA)

पिलानी, राजस्थान (भारत) / Pilani, Rajasthan - 333031 (INDIA)



Dr. Suchandan Pal
Head, Project Monitoring & Evaluation
Chairman, International Science & Technology Affairs Group

No. PME\S\Trg\BU\2020

Date: 04/01/2021

To,

The Director
Banasthali Vidyapith,
P.O. Banasthali Vidyapith
Rajasthan – 304022

CERTIFICATE OF TRAINING

This is to certify that **Ms. Priyal Choudhary, ID NO. BTBTR17052, B. Tech. (Mechatronics Engineering)** student of your Institute has completed her project work online at this Institute during **24th July, 2020 to 29th December, 2020**. Her project was on “**Study and Analysis of non-contact Thermal Scanning System**”.

Her conduct during the training was satisfactory.

Head, PME

प्रमुख पी.एम.ई./Head PME
सीएसआईआर-केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान
CSIR-Central Electronics Engineering Research Institute
पिलानी, राजस्थान / Pilani, Rajasthan-333031



UPTEC

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Richa Singh**, D/o Shri Dinesh Singh, a student of **B.Tech 7th Semester** in Banasthali Vidyapith, Rajasthan, has completed **06 Months Internship** at **UPTEC Computer Consultancy Limited, Lucknow.**

During this period, she developed the project titled **“Social Media Site”** using **“Python”** Technology.

We wish her a bright career in life ahead.

KIRTI KUMAR PANT
General Manager

Date: 12.12.2020

Internship Certificate

The management of TVS Motor Company takes
immense pleasure in awarding Internship Certificate

to

Mr/Ms. RITIKA BANSAL

upon the successful completion of his/her project titled

LINKAGE OF M-GAMS TO

ENGINEERING CHANGE REQUEST

(ECR)

from 27.07.2020 to 26.10.2020

Team TVS takes pride in congratulating his/her on this
accomplishment.






Authorised Signatory



विद्युत अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय)
वाराणसी



DEPARTMENT OF ELECTRICAL ENGINEERING
Indian Institute of Technology (Banaras Hindu University) Varanasi

Rakesh Kumar Misra, Professor

राकेश कुमार मिश्र, आचार्य

To whom it may concern

This is to certify that **Ms. Ritika Bansal** (Roll No. BTBTR17004) a student of B. Tech., Mechatronics Engineering, Banasthali Vidyapeeth, Tonk, Rajasthan worked on her final year project entitled "**State Space Model for Mechatronics Systems**" under my supervision during 31 August 2020 to 10 December 2020.

Her performance in the project was very good. I wish her all the success in her future endeavours.


राकेश मिश्र
11 DEC 2020

Rakesh Kumar Misra / राकेश कुमार मिश्र

Professor, Department of Electrical Engineering / आचार्य, विद्युत् अभियांत्रिकी विभाग

IIT (BHU) Varanasi / भारतीय प्रौद्योगिक संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी

Varanasi, Uttar Pradesh - 221005 INDIA / वाराणसी, उत्तर प्रदेश - 221005 भारत

rkmisra.eee@iitbhu.ac.in

Mobile Number / दूरभाष संपर्क : +91-9450-950-265



Varanasi - 221005, UP, INDIA
T: 0542- 6702843, 2368727, F: 91-542-2368727
W: www.iitbhu.ac.in/eee, E: rkmisra.eee@iitbhu.ac.in

Mobile Robotics

Certificate No: 2020 / IP / 003

Date: 04/01/2021.

Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Riya Soy** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned “**Rumee – The Roommate Robot**”, under the guidance of **Love Thakker**, Founder and R&D Head, Mobile Robotics.

Stamp



Signature

Thakker L.D.

Love Thakker

R&D Head, Mobile Robotics

Love Thakker

Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: IOT / Robotics

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle, Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683

Mobile Robotics

Certificate No: 2020 | IP | 002

Date: 04/02/2021.

Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Sagun** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned "**TOBO- Ver: 3.0 - Humanoid Service Robot**", under the guidance of **Love Thakker, Founder and R&D Head, Mobile Robotics.**

Stamp



Signature

Thakker L.D.

Love Thakker

R&D Head, Mobile Robotics

Love Thakker

Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: IOT / Robotics

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle, Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683



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www.tacautomation.com

TO WHOM IT MAY CONCERN

Date: - 2.12.2020

To,

Mr.Chandraveer Singh /Mr. Rahul Katiyar

Dept: - Mechatronics

College: - Banasthali Vidyapith, Jaipur

Subject: - Appreciation AND Completion of Internship

Dear,

Saloni Jain

This letter of appreciation is to applaud your dedicated efforts and commitment towards the internship project completed by you in Our Organization. We really appraise your internship project that was done on understanding the latest technology. You completed 6 Months of internship successfully (Duration 2.07.2020 to 2.12.2020) and the reports and outcomes of your projects are astonishing.

Your internship reports have been appraised and appreciated by the entire technical team and they are amazed to see such great work from an internship trainee. You seem to have enormous interest and skills in Automation, Robotics and Mechatronics field, which gets reflected in your work. Your academic training and understanding about automation principal is also very high standards.

Our Company appreciates your work and as a reward we have decided to offer you a position of Engineer-Trainee in Our organization. We believe that you would be a great value addition to entire Project Team and your knowledge will help in overall growth and development of our organization.

We wish for your Success, Happiness and a good health for your Life.



Regards

Anupam Sharma

Director

TAC Automation Pvt. Ltd.

CERTIFICATE OF COMPLETION

This is to certify that Mr. / Miss SHIVANGI SHARMA student of
Banasthali Vidyapith, Rajasthan of 7th Semester and Year 2020-21
of Mechatronics Engg. (MCTR) bearing College ID. BTBTR17053
was under Training at UNI-TECH Automation Pvt. Ltd., UNIT-I, S. No.79/2,
Plot No 7, Shivane, Pune (MH.) from 08/07/2020 to 10/12/2020.
His/ Her performance during the training was Excellent.

Date : 14/12/2020




Training Coordinator

CERTIFICATE FOR 1ST TRAINING:



CERTIFICATE FOR 2ND TRAINING:

	CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 ONLINE	
CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP) 2020 ONLINE HAS THE FOLLOWING ACTIVITIES		
Eminent Scientist Lectures, Special Sessions, Project specific classes, Elocution video, Poster designing, Essay writing, Assignments / Project works given by mentor/coordinator & Summer Research Project Completion Report		
CANDIDATE'S NAME: <u>SHREYA AGGARWAL</u> SL. NO.: <u>CSIR/SRTP/2020/NEIST/1507</u>		
GRADE: <u>A</u>		
HOST INSTITUTE: <u>CSIR-NEIST</u>		
MENTOR'S NAME: <u>DR. LAKSHI SAIKIA</u>		
REMARKS	MENTOR	
.....		

	CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 ONLINE	
CERTIFICATE		
Name: <u>SHREYA AGGARWAL</u> SI. No.: <u>CSIR/SRTP/2020/NEIST/1507</u>		
has completed all the requirements of the CSIR-Summer Research Training Program (CSIR-SRTP) 2020 online during June to August, 2020 coordinated by CSIR-NEIST, Jorhat		
		
DR. G. NARAHARI SASTRY DIRECTOR CSIR-NORTH EAST INSTITUTE OF SCIENCE AND TECHNOLOGY	PROF. ALOK DHAWAN DIRECTOR CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH	DR. SHEKHAR C. MANDE DIRECTOR GENERAL, CSIR SECRETARY, DSIR, GOVT. OF INDIA

CERTIFICATE FOR 3RD TRAINING:





वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
सीएसआईआर - राष्ट्रीय विज्ञान, प्रौद्योगिकी और विकास अध्ययन संस्थान (निस्टैड्स)
पूसा गेट, डा० के० एस० कृष्णन मार्ग, नई दिल्ली-110022



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
CSIR - NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES (NISTADS)
Pusa Gate, Dr. K.S. Krishnan Marg, New Delhi-110012

Dated: 18.12.2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Shreya Jain a student of B.Tech. (Mechatronics Engineering) from School of Automation Banasthali Vidyapith, Banasthali has successfully completed training from July-December 2020 at National Institute of Science, Technology and Development Studies.

She worked under the topic "Study of Python Libraries Used in DTA Extration" which involved her to research in various aspects.

She has successful completed his training. During the time of her internship program with us she was found punctual, hardworking and inquisitive.

This certificate is being issued to her on her own request.

We wish her every success in life.

Authorized Signature.



मौलाना आजाद राष्ट्रीय प्रौद्योगिकी संस्थान भोपाल 462003 (म.प्र.) भारत

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का संस्थान)

Maulana Azad National Institute of Technology Bhopal 462003 (M.P.) India

(An Institution of National Importance, under Ministry of Human Resource Development, Govt. of India)

TRAINING CERTIFICATE

This is to certify that Ms. Shubhangi Vyas D/O Mr. Kamal Kishore Vyas, has undertaken a project on “Investigation on Brushless Drive System for motion control in robotic application”, in MANIT Bhopal under my guidance during the period of July 11, 2020 to December 11, 2020.

Ms. Shubhangi Vyas had successfully completed the project. She had been hardworking and sincere during the tenure of training .We wish her all success in her life.

Dated 12-12-2020

Dr. Ujjwal Kumar Kalla
Associate Professor

Department of Electrical Engineering,
Maulana Azad National Institute of Technology, Bhopal (India)





Date: 21st September 2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. Suchita Purohit** from **Banasthali Vidhyapith** has completed Internship under **Operations Excellence Function in Cummins Technologies India Pvt. Ltd., Dewas** from **20- July-2020 to 19-September-2020.**

Her Project Title was **"Value Stream Mapping and its Application"**.

During this period, she was actively involved & has demonstrated excellent capabilities.

For **Cummins Technologies India Private Limited,**




Vishlesh Nagat
Site HR Leader- Dewas

Cummins Turbo Technologies
Division of Cummins Technologies India Private Limited
Formerly known as Cummins Technologies India Limited
Industrial Area No-2, A-3 Road
Dewas-465 001 (M.P.) India
Phone: +91 7872 301 400
Fax: +91 7872 907 660
cummins.com/india

Regional Office
Cummins India Limited, Cummins India Office Complex, Tower A, 3rd, 4th and 5th Floor
Sector No. 21, Dewas-465113 (M.P.) India
Phone: +91 20 6207100, 6865600; Fax: +91 20 6207117
cummins.com
CIN: L26113MP1994PL018102



CERTIFICATE OF COMPLETION

This certificate is proudly presented to

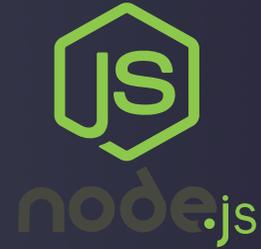
Srighiti Tikka

for successfully completing the Node JS Online
Course by Coding Blocks

Jul 2020 - Jan 2021

Batch

Manmohan Gupta
(Founder, Coding Blocks)



<https://online.codingblocks.com/certificates/CBOL-137430-2d59>



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
सीएसआईआर - राष्ट्रीय विज्ञान, प्रौद्योगिकी और विकास अध्ययन संस्थान (निस्टैड्स)
पूसा गेट, डा० के० एस० कृष्णन मार्ग, नई दिल्ली-110022



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
CSIR - NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES (NISTADS)

Pusa Gate, Dr. K.S. Krishnan Marg, New Delhi-110012

Dated: 04.01.2021

TO WHOMSOEVER IT MAY CONCERN

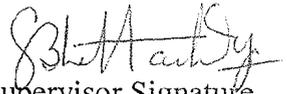
This is to certify that Ms. Swechha Rastogi a student of B.Tech. (Mechatronics Engineering) from school of AUTOMATION BANASTHALI VIDYAPITH BANASTHALI has successfully completed training from July- December 2020 at National Institute of Science, Technology and Development Studies.

She worked under the topic "STUDY OF TWO EMERGING TECHNOLOGIES AND THEIR IMPLICATIONS FOR INDIA: CASE STUDY OF IoT AND 5G" which involved her to research in various aspects.

She has successfully completed her training. During the time of her internship program with us she was found punctual, hardworking and inquisitive.

This certificate is being issued to her on her own request.

We wish her every success in life.


Supervisor Signature
(Dr. SUJIT BHATTACHARYA)
CSIR-NISTADS


Authorized Signature
Tare

Head PME
National Institute of Science
Technology & Development Studies
Dr. K. S. Krishnan Marg, Pusa, N. Delhi-12

Tel. : +11-25846064, 25843227, 25841630, 25843387, 25846445, 25849386

Fax : +11-25846640, 25841260, Website : <http://www.nistads.res.in>



सी.एस.आई. आर. राष्ट्रीय भौतिक प्रयोगशाला

CSIR - NATIONAL PHYSICAL LABORATORY

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

(Council of Scientific & Industrial Research)

डा० के. एस. कृष्णन् मार्ग, नई दिल्ली-110012, (भारत)

Dr. K. S. Krishnan Marg, New Delhi-110012, (INDIA)



14.12.2020

TO WHOM SO EVER IT MAY CONCERN

It is to certify that Miss **Tanushree Chauhan**, B. Tech student studying in B.Tech (Mechatronics Engg., School of Automation Deptt.) at Banasthali Vidyapith, Roll No. 1713120 worked for her B.Tech Project/training entitled "**Study on applications of IoT in Noise Monitoring and Mapping**" under my guidance from dated 13th July, 2020 to 14th December, 2020.

Naveen Garg 14/12/2020

Dr. Naveen Garg

Principal Scientist

Acoustics and Vibration Standards,

CSIR-National Physical laboratory,

New Delhi – 110 012.

PRINCIPAL SCIENTIST
CSIR-National Physical Laboratory
New Delhi-110012



विद्युत अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान (काशी हिन्दू विश्वविद्यालय)
वाराणसी



DEPARTMENT OF ELECTRICAL ENGINEERING
Indian Institute of Technology (Banaras Hindu University) Varanasi

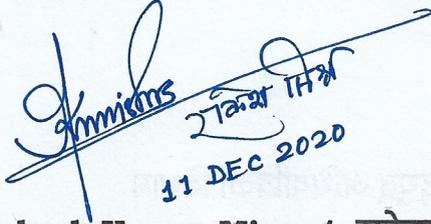
Rakesh Kumar Misra, Professor

राकेश कुमार मिश्र, आचार्य

To whom it may concern

This is to certify that **Ms. Vaishnavi Mishra** (Roll No. BTBTR17067) a student of B. Tech., Mechatronics Engineering, Banasthali Vidyapeeth, Tonk, Rajasthan worked on her final year project entitled "**Designing of Mechatronics System with Configuration Dependent Dynamics: Simulation and Optimization**" under my supervision during 28 July 2020 to 10 December 2020.

Her performance in the project was very good. I wish her all the success in her future endeavours.


11 DEC 2020

Rakesh Kumar Misra / राकेश कुमार मिश्र

Professor, Department of Electrical Engineering / आचार्य, विद्युत अभियांत्रिकी विभाग
IIT (BHU) Varanasi / भारतीय प्रौद्योगिक संस्थान (काशी हिन्दू विश्वविद्यालय) वाराणसी
Varanasi, Uttar Pradesh - 221005 INDIA / वाराणसी, उत्तर प्रदेश - 221005 भारत
rkmisra.eee@iitbhu.ac.in

Mobile Number / दूरभाष संपर्क : +91-9450-950-265

Mobile Robotics

Certificate No: 2020 | IP | 007

Date: 04 | 01 | 2021.

Mobile Robotics Internship Program 2020

Certificate

This is to certify that **Vanshika Ahalawat** student of **B.Tech Mechatronics Branch, Banasthali Vidyapith, Rajasthan** has completed her Project Internship at Mobile Robotics.

She has satisfactorily completed the project assigned "**Sunny : Smart Home Automation**", under the guidance of **Love Thakker**, Founder and R&D Head, Mobile Robotics.

Stamp



Signature

Thakker L.D.

Love Thakker

R&D Head, Mobile Robotics

Love Thakker

Founder and R&D Head,
Mobile Robotics

Mobile Robotics Internship Program 2020 Details:

Duration of the project: 01 / 08 / 2020 to 31 / 12 / 2020.

Project Domain: IOT / Embedded Systems

Mode of Internship/Training: Online.

P.S.: Mobile Robotics do not provide any Source Code, Circuit Diagram, Documentation, 2D-3D Design, etc. for any project due to Non-Disclosure Agreement with customer.

Office: 57, Maharshi Bungalows, Opposite O.N.G.C. Colony, Behind Natraj Hotel, Palavasna Circle, Mehsana, Gujarat, India. Pin code - 384003

Website: www.mobilerobotics.in

Contact: +91 9427910483, +919099644683



TechieNest Pvt. Ltd.

Transforming Engineers to Technocrats

To whom so ever it may concern

This is to certify that **Ms. Vartika Asthana**, B.tech 4th year, Mechatronics Branch, student of **Banasthali University, Rajasthan**, has successfully completed 5.5 month Industrial Project based Internship in **Artificial Intelligence** at **TechieNest Pvt Ltd**, from **5th August, 2020 to 20th December 2020**.

During the internship she demonstrated good technical skills with a self-motivated attitude to learn new in Technical era. She successfully completed her projects on time.

Projects Title- 1. AI based voice assistance system

2. Haptic technology based wearable guide

Points of Evaluation	Max. Marks	Marks Obtained
Project Work	15	14
Assignment Completion	10	10
Attendance	10	10
Communication & presentation Skills	15	14

Internship Coordinator – Mr Sourabh Bhardwaj

We wish her all the best for her career.



Authorized Signature

Office:- 7 Jawahar Nagar Colony, Gate No. 1, Near Glass Factory, Tonk Road, Jaipur, Rajasthan, INDIA- 302015



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| Web site : www.atechindia.com

INTERNSHIP COMPLETION CERTIFICATE

We here by certify that Ms. Yukta kaur D/o Mr. Jitendra Singh bearing Roll.No_1713124 under B.Tech program (MT) of Banasthali University. She had contributed and developed the **Home Automtion and Monitoring System** by her technical skills.

The candidate has acquired appropriate/significant skills required for working in Electronics Industry. Based upon Duration(From16thJuly2020 to 10th Dec2020) to internship period spent by her at the company, her skills are rated asbelow: -

Sr. No.	Type of Skills	Rating (Out of 10)
1.	Written communication skills*	10
2.	Oral communication skills	9
3.	Technical skills*	10
4.	Problem solving capability*	10
5.	Social skills*	9
6.	Discipline and punctuality*	10

We believe that she will be an asset to the organization she serves and works with same enthusiasm and zeal as shown here during hisinternship. We wish her great success in her career and life.

Sign.....

Name... Yukta kaur

Manager-HR/Training/Plant Head (Designation)
(competent authority with seal/stamp)