ASHISH MISHRA | 2017107008
Electronics & Instrumentation Engineering

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Examination	University	Institute	Year	CGPA / %
Graduation	NIT Nagaland	NIT Nagaland	2021	08.54
Intermediate	UP Board	SNIC Naipal Nagar	2016	88.90
Matriculation	UP Board	SNIC Naipal Nagar	2014	91.33

Projects

Mini Project

• Obstacle detection robot

Built a RC Car which was able to detect obstacle using ultrasonic sensor and changes its course accordingly.
Tools: Arduino/IDE, C/C++, BT-HC05, L298N motor controller, ultrasonic sensor.

• Line Follower Robot

Built a RC Car which was fully based on automation to follow black strip path.
Tools: Arduino/IDE, C/C++, L298N, Infrared sensor.

• All Terrain RC Vehicle

Built a RC car which was able to run on all type of terrain and can be controlled using Android smart phone.
Tools: ArduinoIDE, C/C++, BT-HC05, L298N, Grip Belt.

Major Project

- **Smart Water Management System** (Current Project)

Design a smart water management system which is fully automatic using IOT & Machine Learning Technology.
Tools: Labview/Python, PLC, SCADA, many sensors.

- **Electrical Vehicle Design using LabView** (Current Project)

Design Data acquisition ,Battery Management system of electrical vehicle using LabView & power train design.
Tools: Labview, NI-DAQmx, NI-multisim

Internships

Bharat Heavy Electrical Limited (Patna, Bihar)   (winter 2018)

• Intern at 5×660 MW NTPC Barh Super Thermal Power Plant on project of BHEL Power Sector Eastern Region.

• Project on "Study of various sensors used in NTPC Barh Super Thermal Power Plant".

HINDALCO Industries Limited Aditya Aluminium (Sambalpur, Odisha)   (summer 2019)

• It is basically an aluminium smelting plant holding a captive power plant within it.

• Project on "Automation of Critical Instruments in Anode Rodding Plant".

Indian Oil Corporation Limited (Kanpur, U.P.)   (winter 2019)

• This is gas bottling plant comes under marketing division of IOCL.

• Project on "study of Indane Bottling Plant Focusing Different Type of Measuring Instrument in Plant".

Vi Solutions Online Internship (Banglore, K.A.)   (21/09/2020 – 23/10/2020)

- This Online internship on Labview Programming & some applications.

Technical Skills

• **Programming Languages:** C, Assembly Language, Python

• **Software Packages:** MATLAB, LabVIEW, Proteus, Keil, SCADA, MS-Office.

• **Hardware:** 8051, Arduino, Raspberry-pi, DCS, PLC, MyRio.

Workshop

- **Machine Learning & Artificial Intelligence** (2 days workshop), organized by Techniche, IIT Guwahati.
- **Internet of Things** (2 days workshop), organized by Techniche, IIT Guwahati.
- **Raspberry Pi** (2 days workshop), organized by Techniche, IIT Guwahati.
- **Sixth Sense Robotics** (2 days workshop), organized by Techniche, IIT Guwahati.
- **Internet of Things** (5 days workshop), organized by Tequip-3, NIT Nagaland.

Position of Responsibility

- **Secretary** of **Robotics Club NIT Nagaland**   (2019-20)

Leads the Robotics Club NIT Nagaland Teams (2 Teams) at **Naga Tech** (Biggest technical festival of Nagaland), organized by **Department of Technical Education, Govt. of Nagaland.** Both teams achieved 1st & 2nd position and won 50,000 Rs (30k+20k) prize money.   (Aug-2019)

- **Student Coordinator Training & Placement Cell NIT Nagaland**   (2020-present)

Contacting new firms/HRs for recruitment drives & sending of emails in year with numerous calls.

Coordinating with students from other NITs in case if it is a pool drive and smoothing out process to maximum.

Key Courses

- Networks & Electrical Machines, Signals & System, Control System, Analog Circuit, Digital System, Electronic Devices, Measurements, Sensors & Industrial Instrumentation, Process Control, Communication System, Microprocessor & Microcontrollers, Linear Integrated Circuits, Industrial Data Communication, Embedded System, Internet of Things, SCADA & DCS, PLC, Machine Learning, Data Structure, Optical Instrumentation, Bio-Medical Instrumentation, Petrochemical Instrumentation, Virtual Instrumentation, Analytical Instrumentation.

Academic Achievements

- Secured 2nd position in **Robotics** at **Naga Tech** technical Festival.
- Secured 2nd position in **Maze Runner** (line follower robot) organized by Ekarikthin 19, held at NIT Nagaland**.**
- Secured 2nd position in **Stream the boat** (automatic boat race) organized by Ekarikthin 19, at NIT Nagaland.

Extra Curricular Activities

- Organize Crypt your mind event during Ekarikthin 18 held at NIT Nagaland.
- Participated in Science Exhibition on National Science Day & represented self controlled fully automated **Obstacle Detection Robot** in front of chief guest **Dr. R. Chidambaram** (Ex-principal scientific adviser of federal Govt. of India & Ex-Director of BARC).