

HARSHWARDHAN SINGH CHOUHAN

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Summary

Dynamic, skilled, and experienced engineering professional with knowledge in the field of creating electronic and mechanical is looking to work in a core engineering organization as a mechatronic engineer.

Skill Highlights

- Result oriented
- Excellent analytical skills
- Complex problem solver
- Hands-on attitude
- Strong decision maker
- Innovative

Education

B. tech Mechatronics

Symbiosis University of Applied Sciences
9.3[Top 5]

XII (Senior Secondary)

Jawaharlal Nehru School
Science

Experience

Intern – 12/2020 to present

BOWL, Indore

- New York based firm
- Project related to automatic food dispensing machine

Intern - 09/2020 to 11/2020

Lupin limited, Ankleshwar

- I helped 3 employees on my team at company.
- **Methanol reduction** project.
- I analyzed **industrial boiler**.
- I did analysis of steam network across the plant.
- I learned about different **instruments** used.
- Satisfied all deadlines.

Intern – 06/2020 to 07/2020

SCANTECH Laser, Pune

- Developed a **robotic arm** integrated **3D printer**.
- 3D designing, marlin firmware etc.

Intern – 07/2020 t 12/2020

Liugong Machinery Co. Ltd Pithampur

- Online diesel filling quantity and flow rate monitoring
- Did research on shape memory alloy and prepared inchworm mechanism using Nitinol alloy
- Light Activated Switch Circuit
- Microcontroller based scrolling message display
- Industrial security with alert system using Fire Sensor

Intern – 06/2018 to 07/2018

Indian Institute of Technology, Indore

- Did research on **shape memory alloy** and prepared inchworm mechanism using Nitinol alloy

Projects

Robotic Arm 3D Printer (06/2020 – 07/2020)

- Additive manufacturing, 3D Printing Robotic Arm using Arduino.

Single axis flight controller (03/2019 – 04/2019)

- A closed-loop control system self-balancing robot using gyroscope and Brushless motor. this technology is used in quadcopters and different flying machines.

Savonius Wind Turbine (02/2020 – 03/2020)

- A Vertical axis wind turbine with cylindrical parts as blades operating on drag force.

Arduino development Board (02/2019 – 04/2019)

- This board shows working of arduino microcontroller and provides a great platform to learn about Arduino and Arduino compatible hardware systems.

Piezo sensor alarm (09/2018 – 12/2018)

- A piezo sensor alarm using BC547 transistor used as a switch and amplifier. when a sudden force is applied on the piezo sensor it generates a potential difference due to displacement of charges inside it and the alarm works.

Li-Fi Wireless Communications (11/2019 – 12/2019)

- Light-Fidelity is high-speed wireless data communications through LEDs and lasers.

Shape Memory Alloy (06/2019 – 07/2019)

- Did research on shape memory alloy and prepared an inchworm mechanism using Nitinol alloy as an intern at IIT Indore.

Bluetooth door lock

- worked in the field of home automation and developed a Bluetooth controlled door lock with the help of microcontroller and android app in IoT applications.

Light Activated Switch Circuit (07/2020 – 12/2020)

- It automatically switches ON lights when the sunlight goes below the visible region of our eyes

filling quantity and flow rate monitoring (07/2020 – 12/2020)

- IoT Based Diesel Flow Meter

Hobbies

- ❖ Running
- ❖ Hiking, Camping

Skills

- ❖ SAP
- ❖ Solidworks
- ❖ AutoCAD
- ❖ C++
- ❖ HSMWorks
- ❖ MS- Office
- ❖ MATLAB
- ❖ PCB Design

Certificate

- ❖ Nationl Engineering Olympiad
- ❖ G Code programming for CNC
- ❖ Industry 4.0
- ❖ NxDT IOT owrlsjop
- ❖ Solidworks
- ❖ PCB design and assembly
- ❖ Wind Energy- From wind turbine to grid integration