Apoorvi Sharma

B - Tech Robotics and Automation Engineer

Detail-oriented individual with an eagerness to accept challenges while learning and gaining experience from them. Currently pursuing robotics and automation engineering. I am a dedicated individual willing to assist in the activities of an organization to serve the organization and broaden my experience level..

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DOB – 29 /09/ 2000

LANGUAGES

English
Professional Working Proficiency

Hindi
Native or Bilingual Proficiency

Marathi
Professional Working Proficiency

French
Elementary Proficiency

HOBBIES

Drawing | Travelling | Listening to music | Reading

EDUCATION

MIT World Peace University (MIT-WPU) — Pune, India
Current **CGPA: 9.10 / 10.0**
Bachelor of Mechanical (Robotics and Automation) Engineering
2019 - 2023

Millennium National School - 77.4 % — Pune, India
12th Std - CBSE Board - Science - PCM
2017 - 2018

Sinhagad Spring Dale Public School - 87.8 % — Pune, India
10th Std - CBSE Board
2015 - 2016

SKILLS

Application Software: Git, Linux, AUTOCAD, Solid Works, Ansys, Fusion 360, Ultimaker Cura, Microsoft Office.
Hardware : Arduino, ESP32, Raspi.
Programming Languages: C++, Python, MATLAB.
Interpersonal Skills: Teamwork.

PROJECTS

Design and Development of a Strain Wave Gear Generator — June 2021 - Dec 2021
- Design and development of a harmonic drive for small-capacity motors (below 400W) that is affordable, robust, and dependable.
- Blog Post - https://apoorvi-29.github.io/SWG/

Modular UGV for Surveillance Operation — April 2022 -June 2022
- Design of a continuous track system to facilitate the UGV on uneven terrain.
- Fabrication of two 2-wheeled- bots based on the self-balancing principle, using an IMU sensor (MPU9250) to gain feedback to act as marsupial to the main UGV bot.

A surveillance robot — April 2022 -June 2022
- Design and assembly of a surveillance robot to serve as the first response mechanism for counter-insurgency and logistics operations.
- It was developed using an Arduino Uno board and ESP32 cam - Wi-Fi module as a sensor input.

Robot Programmer - Basic — Feb 2022 - April 2022
- Learnt to program a KUKA KR-10 R 1420 robotic arm manually (via teach pendant) and by using software (Robo-DK) in the Central Workshop.
- Skilled to manipulate and work around with a robotic arm in a defined work volume.

Automatic Light Control — July 2021 - Sep 2021
- A system that senses a warm body (via a PIR sensor) and then via the response of an LDR sensor turns the lights on in a room.

CERTIFICATIONS

- Applied Thermodynamics (NPTEL) (07/2021 - 10/2021)
  Credential ID- NPTEL21ME119S44201615
- Introduction to Robotics - (NPTEL) (01/2021 - 04/2021)
  Credential ID - NPTEL21ME32S24190776
- Introduction to Industry 4.0 and Industrial Internet of Things - (NPTEL) (07/2021 - 10/2021)
  Credential ID - NPTEL21CS66S24200730
- 2 Days Advanced Welding Training - Fronius India
- Python Basics for Data Science – EDX.
  Credential ID - ID5fdd3c361b1c4e498a0f0b32b0e768f2

ACHIEVEMENTS

- International French Language Olympiad
  Secured 10th State Rank Scored 93.270/100
- Elementary Grade Drawing Examination
  Received Grade A
- Intermediate Grade Drawing Examination
  Received Grade B

WORKSHOPS

- **Brainwave Robotics - Technex's 20,**
  Indian Institute of Technology (BHU) Varanasi

  Assembled a mobile robot as part of a hands-on workshop, and we used an Arduino UNO to operate it using code, a keyboard, and a Bluetooth-enabled smartphone app.

CO-CURRICULAR ACTIVITIES

Drivetrain Engineer, Team Prokarters Jan 2021- Feb 2022

- Worked as a fellow member in the Transmission Department where we designed and fabricated our kart according to the standards of IKR season 6.
- Successfully designed, procured, manufactured, and assembled the transmission system of the vehicle.
- Had hands-on experience in the designing and fabrication of the vehicle (welding).
- Successfully made cost report and contributed to design report that won AIR 3 and AIR 4 respectively at the national level event - IKR season 6.
- Blog Post -https://apoorvi-29.github.io/Drivetrain

Skills Gained - Designing, Drafting, Welding, Cost Analysis, DFMEA, DVP, Procurement.

Vice Head of Industrial Relations, Society of Women Engineers. May 2021- July 2022

- Organized a workshop regarding awareness of opportunities in Welding and Advancements in Welding Technology in association with Fronius India Pvt. Ltd.
- Helped in the efficient operation of the team and assisted the head of Industrial Relations.

Skills Gained - Team and Event Management.