

## **CAREER OBJECTIVE**

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.

## **EXPERIENCE**

### **Drivetrain Engineer, Team Prokarters**

Jan 2021- Feb 2022

- Successfully designed and drafted the transmission system of the vehicle.
  - Helped in the manufacturing and procurement of components.
  - Involved in the fabrication of the vehicle(welding).
  - Successfully made cost report and contributed to design report that won AIR 3 and AIR 4 respectively in design at the national level event - IKR season 6
- Skills Gained - Welding, Drafting, Designing, Cost Analysis, DFMEA, DVP, Procurement.*

### **Vice Head of Industrial Relations, Society of Women Engineers.**

May 2021- Present

- Organized a workshop regarding awareness of opportunities in Welding and Advancements in Welding Technology in association with Fronius India Pvt. Ltd.
  - Helped in the proper functioning of the team and assisted the head of Industrial Relations.
- Skills Gained - Team and Event Management.*

## **SKILLS**

**Application Software:** Git, Linux, AUTOCAD, Solid Works, Ansys, Fusion 360, Microsoft Office.

**Hardware:** Arduino, Esp 32, Raspi.

**Programming Languages:** C, C++, Python, Matlab.

**Interpersonal Skills:** Leadership, Teamwork

## **CERTIFICATIONS**

- Applied Thermodynamics – NPTEL.
- Introduction to Industry 4.0 and Industrial Internet of Things -NPTEL
- Introduction to Robotics – NPTEL.
- 2 Days Advanced Welding Training - Fronius India.
- Python Basics for Data Science – EDX.
- Proficiency in English – Amcat Certificate.
- English Comprehension - Amcat Certificate.
- Software Development Trainee - Amcat Certificate.
- Data Processing Specialist - Amcat Certificate.

## **EDUCATION**

### **Dr. Vishwanath Karad MIT World Peace University (MIT-WPU)**

Bachelor of Mechanical (Robotics and Automation) Engineering

Current CGPA: 9.10/10.0

Pune, India

2019-2023

### **Millennium National School, Pune**

12TH STD - CBSE BOARD-SCIENCE – PCM- 77.4 %

Pune, India

2017-2018

### **Sinhagad Spring Dale Public School, Pune**

10TH STD -CBSE BOARD - 87.8 %

Pune, India

2015-2016

## PROJECTS

### **Design and Development of a Strain Wave Gear Generator**

**(Ongoing)**

- Design and development of a low-cost, sturdy, and reliable harmonic drive for small-capacity motors.

### **Modular UGV for Surveillance Operation**

April 2022 -June 2022

- Design of a traction system for the locomotion of the UGV on plain Terrain.
- Design and development of two - 2-wheel self-balancing robot to act as marsupial to the main UGV bot.

### **Design and Optimization of a surveillance robot**

April 2022 -June 2022

- The designing and assembling of a surveillance robot to serve as the first response mechanism for counter-insurgency and logistics operations.
- The project's goal was to make a surveillance robot out of an Arduino Uno board and integrate an Esp32 cam- module as a sensor input.

### **Robot Programmer – Basic**

Feb 2022 – April 2022

- Tinkering and figuring out various ways to program a KUKA KR-10 R 1420 in the central Workshop.
- Successfully learned how to manipulate and work around with a robotic arm in a certain given workspace.

### **Automatic Light Control**

July 2021 – Sep 2021

- Designed a system that would sense a warm body and then turn the lights on.

### **Rigid Flange Coupling**

July 2020

- Designed a rigid flange coupling, to connect two shafts, in order to transmit power from one shaft to another.

## WORKSHOPS

- **Brainwave Robotics by Technex's 20, IIT Varanasi by Innovians Technologies (India)**

23 Nov 2019 - 24 Nov 2019

We created 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.

## EXTRA-CURRICULAR

- 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