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EDUCATION

Veermata Jijabai Technological Institute

B-tech Mechanical Engineering CGPA: 8.59/10

Mumbai, India

Expected Graduation: June 2023

EXPERIENCE

Airpix Pvt Ltd

Technical Intern

Mumbai, India

May 2021- June 2021

- Was entitled with the task of implementing NPNT on the current firmware of the drone. Also finding about the procedures of filing for NPNT Compliance.
- Researched about previous NPNT Implementations on ArduPilot

PROJECTS

Mobile Manipulator

Python, CoppeliaSim, OpenCV

github.com/Manipulator

June 2021 - Present

- Currently working on implementation of a 5-DOF Arm in CoppeliaSim
- Implementing HEBI Robotics module to control the bot.

Delta PSP - Pick and Place Bot

SolidWorks

github.com/Delta2021

May 2021 - July 2021

- Assisted in the successful designing and in the construction of a fully scale gantry bot for the purpose of sorting parcels.
- Standardized all the parts for manufacturing, suggested some major design changes.

Micromouse

ROS, Gazebo, Python

github.com/Micromouse

Dec 2020 - Dec 2020

- Built a ROS based Control system for a Maze Solving Bot Simulated in Gazebo.
- Successfully implemented DFS algorithm to solve the maze.

Vitarana Drone - Disaster Management

ROS, Gazebo, Python, OpenCV

github.com/E-Yantra_Tasks

Oct 2020 - Feb 2021

- Built a ROS based Control System for a Delivery Drone Simulated in Gazebo
- Was successful in creating a basic parcel delivery control system for a drone using python.

POSITION OF RESPONSIBILITY

Society of Robotics and Automation

Mechanical Head

Mumbai, India

June 2021 - Present

- Co - conducted many workshops like Wall-E (Self balancing bot) and Mario(3-DOF Manipulator) for over 200 Freshmen
- Contributed in the code for 3-DOF Manipulator in ROS- Gazebo for the Mario Workshop
- Taught the basics of CAD at the Dimensions Workshop to over 80 Freshmen students

ACHIEVEMENTS

- Were in the Top 20 Teams for All India E-yantra Robotics Challenge.
- Were in the Top 18 Teams in Micro-Mouse Challenge organized by IIT Bombay

Skills

- Programming Languages** : Python, C , C++
- OS** : Windows, Linux, ROS, Gazebo
- Softwares** : CoppeliaSim, Github
- CAD Modelling** - Solidworks, Fusion360
- People's Skills** - Problem Solving, Conflict Management, Team Person, Quick Learner
- Languages** - English, Hindi