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Electrical and Robotics Engineer looking for an Internship having a strong works skill gained through Industrial and Academic Projects. Responsible and proactive engineer in field of Automation Control and Robotics looking further to develop my skills and experience.

PROFESSIONAL EXPERIENCE:

Technical Design Architect, Cambionix Innovations, Chennai, India

2017-2019

Responsibility of coordinating and developing the projects while re-evaluating current structure and commercialising the business model.

EDUCATION:

Western Michigan University, Kalamazoo, Michigan. USA

August 2019-Present

Master of Science, Electrical Engineering

Hindustan University, Chennai, India

July 2013-July 2017

Bachelor of Technology, Mechatronics Engineering

CGPA: 3/4

PAPER PUBLICATIONS:

1. 'ROS Based Stereo Vision System for Autonomous Vehicle', IEEE ICPCSI.

September 2017

2. 'Low Cost ROS Based Semi-Autonomous Drone with Position and Altitude Lock' IEEE, ICPCSI.

September 2017

3. 'Dinoponera 6 Wheeled Exploration Vehicle with Swarm Bots' 21st International Mars Society Convention.

August 2018

COMPETITIVE PROJECTS:

SAE Aero Modelling, Florida, USA

February 2014

It was an International project, took the responsibility for designing a telemetry system with GPS Module and Altitude Measuring for Unmanned Aerial Vehicle. Team secured the 10th place in the competition among the 200 teams participated worldwide.

SAT_BOT Space Debry Clearance Prototype, New Delhi, India

2016

As a team manager, helped the team develop a Space Debry Clearing Bot with Lego. Our team first participated in the National Level World Robot Olympiad 2016 held in Kolkata and secured the first place in the advanced category which helped represent India in the International Level World Robot Olympiad 2016 held in New Delhi.

ACADEMIC PROJECTS:

Autonomous Vehicle for Navigation using image processing in python

This Project was mainly fabricated to execute an Autonomous Vehicle with Stereo Version to perform obstacle avoidance in Industries autonomously with open source software and wireless GPS navigation with coordinate's measurements.

Semi-Autonomous drone with Altitude and position lock using Image processing

This project was fabricated with Low-cost microcontroller to perform various GPS navigation and Position Lock Autonomously with open source software for humanitarian aid.

Health Monitoring with sonogram

This Project was fabricated to make a compact ultrasonic device with Wi-Fi module to determine health parameters for elderly patients in case of emergency.

Cartesian Drawing Robot

This Project was made to replace the drawing boards with mechanical function. It works with the help of micro-controller and Wi-Fi to write and sketch the input given in the software.

KEY COMPUTING SKILLS:

- Programming/Scripting Languages: MATLAB (Familiar), Python (Familiar), Arduino (Familiar), C, C++ (Basics)
- Frameworks and Tools: Visual Studio
- Design: AutoCAD, SolidWorks, Adobe CC
- Operating Systems: Windows, Ubuntu, Mac-OS,

ACHIEVEMENTS:

- Active Member of Python Community India. **2017-Present**
- Coordinated a National level workshop for 65 students on Robotics and Artificial Intelligence. **2016**
- Participated in UAE Drone for Good Challenge, conducted by UAE Government. **2016**
- Participated in SAUV conducted by NUS Singapore. **2016**
- Participated in SAE Aero Modelling, Conducted in Tampa USA. **2015**
- Member of condition monitoring society, Chennai. **2016**
- Represented Chennai in National Level Table Tennis Competition. **2013**

EXTRA CURRICULAR ACTIVITIES

Technical Course Instructor, Chinmaya vidyalaya Hr.Sec.School

2018

Student Representative, Hindustan University

2015-2017

Technical Trainee, Ashok Leyland

2016

LANGUAGES KNOWN: Tamil (Native), English (Working Proficiency), French (Beginner).