Kedar C. More

Graduate Student at University of Colorado, Boulder

In Short:

Expecting to pursue a challenging career and be a part of a progressive organization that gives scope to enhance my knowledge and utilize my skills towards personal and professional growth.

Technical Experience:

- Participated in Asia-Pacific competition **'ABU Robocon'**

I worked as a part of a team on the following mobile robots in subsequent years according to the problem task.

1. **Frisbee throwing robot** (manually controlled, frisbee could be thrown at a desired location accurately)
2. **Ball swinging robot** (autonomous, used pneumatic systems)
3. **Quadrupedal robot** (autonomous, used linear actuators and accelerometer for feedback)

- Senior year project **'Design and Development of 3D Scanner'**

This is a 3D Scanner made with the help of IR distance sensing technology at net development cost of $100 which can be scaled down in mass production. It is a low-cost version of the scanners in the market with similar resolution and accuracy.

- Participated in and won the **'Smart India Hackathon'**

Our team worked on and solved the problem statement **'Smart Inventory Management'** encountered and proposed by **'Everest Industries'**. We used machine learning to predict the frequency and amount of inventory to be procured by the company to get the best possible deal on it.

- Technical Paper on **'Manual Lathe Extension'**

Most of the industries are switching to automation and acquiring CNCs while disposing off or recycling their old Manual Lathes. Instead this extension can be fitted to make a manual machine to work automatically with an application control. Presented the paper in many competitions and won four of them.

- Published a paper on **'A Review on Vehicular Cyber Physical Systems'**

In this paper we reviewed the work presented in ten papers of this topic and built the conclusion based on the work done.

- Junior year Mechatronics project **'Rain Sensing Wiper'**

We used a rheostat as a sensor which changed resistance with the amount of water present on it. Speed and frequency of the wiper swing was decided with the change in the amount of water present on the sensor which in turn was on the windshield.

Industrial Experience:

- Internship at **'CMI Industries'**, Navi Mumbai, India where I worked on **'CNC Machines'**.
- Internship at **'Nuclear Power Corporation of India, Limited'**, where I worked on **'Turbine driven feed water pump'**.

Leadership Opportunities:

- **Lead a Mechanical Team** of seven members for the competition 'ABU Robocon' where I designed and implemented the mechanical aspects of the robots physically while considering the electronics and coding requirements of the task.
- **Editor of a College Magazine** named 'URJA'. It consisted of technical articles written by the students of mechanical branch.

Contact:

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Education:

- Pursuing Master of Science, Thesis in **Mechanical Engineering** Concentration: **Robotics and Control** (2019-present) University of Colorado Boulder, Boulder, CO
  GPA: 3.767 on 4
- Bachelor of Engineering in **Mechanical Engineering** (2015-2019)
  Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai, India
  CGPA: 7.25 on 10

Technical Skills:

- **CAD Software:** DS Solidworks©, Autodesk AutoCAD©, Fusion 360©, Inventor©, Catia©
- **Analysis Software:** Ansys©, MATLAB© (SimMechanics)
- **Pneumatics and hydraulics:** FESTO FluidSIM©.
- **Microcontroller:** Arduino
- **PCB Designing:** Proteus©, Eagle©
- **Programming Languages:** C, C++, Python
- **Computer Basics:** Microsoft Office©

Interests:

Swarm Robotics: Worked on **'Droplets':** a platform designed for experimentation in this field and I want to use them to develop a product or service useful in our day-to-day lives.