

# Pradeep M

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## EDUCATION

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### Bachelor of Engineering in Mechatronics Engineering (CGPA: 8.5/10)

Aug 2019-Present

Kumaraguru College of Technology, Coimbatore, India.

- **Major Courses:** C and Python Programming, Industrial Electronics and Drives, Control Engineering, Mobile Robotics, Design of Machine Elements, Computer Aided Design, Additive Manufacturing.

### Higher secondary education

2017-2019

Sengunthar Higher Secondary School.

- **Stream:** Computer Science

## WORK EXPERIENCE

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### Volar Alta, India.

Oct 2021 – Feb 2022

Product Development Intern

- Design and Develop an dispatch payload system for UAVs
- Worked on Design, analysis, fabrication, and testing of the container.
- Worked in Embedded Systems and 3-D Printing.

### Forge Accelerator, Coimbatore, India.

Aug 2021 – Jan 2022

Graduate Innovation Engineer

- We work as a team with students from different engineering streams, towards designing, developing and testing an innovative tech-enabled solution to solve a real-world problem sponsored by the industry.
- We innovate and design solutions by setting and achieving metrics for customer development & discovery, value-proposition validation

### Mechathon Engineering Private Limited

Jun 2021 – Aug 2021

Product Design Intern

- Design, Assembly and 2D drafting of multi-plunger positive displacement pump
- Geometric Dimension & Tolerance and DFMA

## TECHNICAL SKILLS

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**Languages:** Python, C++, C

**Tools/Frameworks:** ROS, OpenCV, MATLAB, Simulink, Fusion 360, Solid works, Ansys Basics, Labview ,Codesys [PLC Automation]

**Others:** 3D Printing, Soldering, Prototyping , DevBoard [Jetson Nano, Arduino, Raspberry Pi 4, Node MCU ]

## PERSONAL PROJECTS

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### AMR in Medical Logistics | [Link](#)

Jun 2022

- Worked towards developing, simulating & testing the wheeled robot and perform agile movements.
- Mapping & ROS Navigation stack for wheeled robots.
- Designed and developed hardware for the entire mobile robot

### Contactless and Optimized Cleaning for Urinals | [Link](#)

Oct 2020

- Designed spreader using CAD with more than 6 different models based on materials usage.
- Performed analysis using Ansys for all the model and generated results based on the flow rate for each model.

### 3D Printed Prosthetic Arm Controlled using Electro Myro Sensor and Arduino Uno | [Link](#)

Dec 2019

- Designed the Prosthetic Arm in CAD and performed analysis in joints, mechanism, and analysis of different static loads.
- Analyzing the movement of the robot under various circumstances and programming a servo with Arduino.
- Laser cutting and 3D printing were used to fabricate the design.

## ACHIEVEMENTS

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- VISAI Project Competition-Vel Tech Mar 2021 Our team secured 1st in the project competition under the domain Clean water and Sanitization.
- Ingenious 2021 - ISA VIT PUNE May 2021 Our team is the finalists in the Competition. We did a project titled "Zeal Bot"

## Certifications

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- 3D Model Creation with Autodesk Fusion 360 - [Coursera](#)
- IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies - [Coursera](#)
- Crash Course on Python - [Coursera](#)
- Git and GitHub - [Coursera](#)
- ROS SLAM Navigation Stack and Custom Robot - [Udemy](#)
- Open CV- TDS - [Robotics and Automation Forum](#)