Harshith R

Motivated Robotics and Automation Engineering student with skills in C Programming, Python, Circuit Design, ROS, AutoDesk Fusion 360, and robot simulation. Proficient in electrical systems, sensors, motor drivers, and power electronics. Passionate about research and development, eager to contribute to innovative engineering projects in real-world R&D environments.

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OBJECTIVE

Seeking an internship in the field of Additive Manufacturing to apply my engineering skills and gain hands-on experience in advanced manufacturing and automation technologies.

EDUCATION

Sri Krishna PU College, Bengaluru — *PUC*

JUNE 2020 - APRIL 2022

JSS Academy of Technical Education, Bengaluru— *B.E Robotics and Automation*

NOVEMBER 2022 - JULY 2026

PROJECTS

- **Autonomous Mobile Robot:** Built a self-navigating robot using Raspberry Pi and ROS1, integrating ultrasonic sensors and motor drivers for real-time obstacle avoidance and autonomous path planning. Enabled modular control and sensor data processing through ROS nodes.
- **Prosthetic Robotic Arm**: Designed and developed a myoelectric-controlled robotic arm using EMG sensors, Arduino, servo motors, and a 3D-printed structure, enabling intuitive muscle-signal-based control.
- **Credit Card Fraud Detection:** Designed and implemented an AI/ML model for credit card fraud detection, utilizing supervised learning algorithms to analyze transaction patterns.
- **Fake News Detection:** Developed a machine learning model to identify fake news articles by analyzing text features and applying classification algorithms.

ACTIVITIES

Instructor for IEEE workshops on Arduino, sensors, ESP32, and ROS integration—delivered hands-on sessions focused on robotics applications and practical implementation.

AI/ML Internship at Brainwave Matrix: Worked on Fake News Detection projects, developing and optimizing machine learning models for text classification and predictive analysis to identify misinformation.

Designed and built a maze solving robot to participate in the Technoxian, world robotics championship.

SKILLS

C Programming

Python

Circuit Design

ROS

Computer Aided Engineering Drawing

AutoDesk Fusion 360

Robot Simulation(Robo DK)

Robotics System Design

Arduino

Electrical Systems: Sensors (Encoders, Proximity), Motor Drivers, Power Electronics

HOBBIES

Cooking, Athletics, Photography

LANGUAGES

English,Kannada,Tamil,Telugu

CERTIFICATES

C programming language

Python programming language

Robotics Operating System(ROS) workshop