Kushi M Yaranal

ABOUT ME

I'm an Electronics and Instrumentation engineering graduate with passion for embedded systems and instrumentation. I've always been fascinated by how hardware and software come together to solve real-world problems whether it's through sensor-based automation, microcontroller projects, or building systems that just work efficiently. I enjoy hands-on problem solving, working with microcontrollers and diving deep into signal processing or control systems. I'm constantly curious, always learning, and excited to build smart, reliable tech that makes a difference.

CONTACT INFO

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EDUCATION

August 2022 - June 2026 **JSSATEB, Bengaluru**
Bachelor of Engineering **Electronics and Instrumentation Engineering**
SGPA (5th sem) - 6.65

June 2019 - April 2020 **Kendriya Vidyalaya M G Railway Colony**
10th Grade **84% (CBSE)**

PROJECTS

- **Object Detection Using Radar**

Developed a radar-based object detection system to accurately identify and locate objects in real-time.
Implemented signal processing techniques in Python to extract range, velocity, and angle of targets.

- **Smart Machine Monitoring and Anomaly Detection System (currently in progress)**

Designed and implemented an Edge AI-based system using ESP32 and Arduino to monitor industrial machine health in real-time without cloud dependency
Detecting anomalies in sensor data (vibration, current, temperature), then converted models to TensorFlow Lite for on-device inference.

- **Maze Solver using BFS and DFS**

Developed a maze solver that uses both Breadth-First Search (BFS) and Depth-First Search (DFS) algorithms to find paths from the start to the goal in a maze.

SKILLS

E**mbedded Systems**: Arduino, ESP32, Sensor Integration, Real-Time Data Acquisition, Microcontroller Programming
Simulation & Modeling Tools: MATLAB, Simulink
Data Analysis & Visualization: Power BI, Microsoft Excel
Programming language: C programming , Python

COURSE CERTIFICATION

- Fundamentals of Digital Design for VLSI Chip Design-COURSERA
- Python Course for Beginners -SCALER