P. Madhavan

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Career Objective

Dedicated and detail-oriented Electronics and Instrumentation Engineering (EIE) student from JSSATEB, passionate about automation, embedded systems, and AI-driven innovation. Seeking challenging opportunities to apply my academic knowledge and technical skills in real-world problem-solving and contribute to impactful engineering solutions.

Academic Background

- B.E. in Electronics and Instrumentation Engineering - JSSATEB (VTU) - 2022 - Present - [CGPA]

- 2nd PUC - MES PU College - 2022 - 70%

- 10th Std (SSLC) - Assumption English School - 2020 - 89%

Technical Skills

- Embedded Systems: ARM Cortex-M, Embedded C, Keil uVision

- Hardware Design: VLSI Design, Verilog HDL, Logic Design

- Programming: C, Python, MATLAB, Arduino IDE

- Instrumentation & Control: Sensors, Transducers, LabVIEW, Process Control

- Signal Processing: DSP, Analog & Digital Signal Analysis

- Electronics: Analog Circuits, Op-Amps, EDC, PCB Design Basics

- Automation: PLC Fundamentals, Industrial IoT, SCADA Overview

- Communication: IoT Concepts, Data Communication, Networking Protocols

Projects

- Autonomous AI-Driven Harvesting Robot Using Image Processing

  - Designed a robot to identify, locate, and harvest ripe vegetables using AI-based image classification and distance sensing.

- Arduino-Based Voting Machine

  - Developed a secure, microcontroller-based electronic voting system with real-time vote counting.

- Microcontroller-Based Vacuum Cleaning Device

  - Built an autonomous vacuum cleaning prototype with programmed movement and obstacle avoidance.

Certifications

- Career Essentials in Generative AI - Microsoft

- Data Analytics - IBM SkillsBuild

- Ethics in the Age of Generative AI - Microsoft

- Generative AI: Thoughtful Online Search - LinkedIn Learning

- Python Programming - Great Learning

- Electrical Systems Fundamentals - NPTEL

Strengths

- Strong foundation in electronics and automation

- Practical experience in embedded systems and image processing

- Passionate about AI and real-world engineering innovation

- Excellent communication and teamwork skills

Languages Known

- English

- Kannada

- Tamil

Declaration

I hereby declare that the above-furnished information is true to the best of my knowledge.

Date: April 21, 2025

Place: Bangalore

Signature: P. Madhavan