

Arun Kumar.A

Electronics and Instrumentation Engineer

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Objective

A motivated engineering graduate aiming to start a professional career in the field of instrumentation and control, with a strong foundation in Embedded Systems, Digital Electronics, and calibration techniques.

Skills & Abilities

- Embedded Systems (8051, ARM, Arduino)
- MATLAB / Simulink
- LabVIEW
- PCB Design
- Industrial Automation & Control
- Process Control & Instrumentation
- Signal Processing
- IoT and Sensor Integration

Work Experience:

Fresher

Education

JSS ACADEMY OF TECHNICAL EDUCATION BANGALORE

2022-2026

Bachelors of engineering in Electronics And Instrumentation Engineering

CGPA: 7.31

S CADAMBI INDEPENDENT PU COLLEGE

2022

Pre -University Education

Percentage: 68.33%

Samhitha English School

2020

State Board

Percentage:61.12%

Projects:

GUARDIAN CANE

The Guardian Cane is a special walking stick designed to help people who are visually impaired move around safely and independently. It uses smart technology to detect obstacles, sense water on the ground, and light up in dark places. By combining these features, the cane helps users confidently navigate their surroundings, making daily life easier and safer. It's designed to be easy to use, lightweight, and affordable for everyone who needs it.

Smart Helmet For Safety

The Smart Helmet enhanced two-wheeler safety by integrating features like alcohol detection, accident detection, GPS tracking, and GSM-based alerts. It prevents vehicle ignition unless the helmet is worn and provides real-time monitoring and emergency alerts through buzzer and LED indicators.

Movement Detection System In Restricted Area

This project focuses on developing a movement detection system for restricted areas using sensors and microcontrollers. The system detects unauthorized motion and immediately triggers alerts through alarms or notifications to concerned authorities. It enhances security by providing real-time monitoring and rapid response capabilities. The solution is cost-effective, scalable, and suitable for sensitive zones like military bases, laboratories, and government facilities.

