Selvakumar C

selvakumarc2005@gmail.com 9361616498 Dindigul

Career Objective

Electronics and Communication Engineering graduate with hands-on experience in Embedded Systems and IoT, seeking an entry level role to contribute to firmware development, hardware -software integration.

Profiles

GitHub
selvakumar

Linkedin
selvakumar

Education

Kongu Engineering College — B.E • 8.19
Electronics and Communication Engineering

Thiruppathi Arulneri HSC — 12th • 86
PMBS

Projects

IoT-Based Smart Cold Chain Monitoring System

- Developed a real-time temperature and humidity monitoring system for perishable goods.
- Used ESP32 for sensor data acquisition and Wi-Fi-based cloud monitoring.
- Implemented remote dashboard and alert system to prevent product spoilage.

Alcohol Monitoring System Using LM339N

- Designed an alcohol detection system using MQ3 sensor and LM339N comparator.
- Integrated buzzer and LED indicators for safety applications.

Human Detection System using ESP32-CAM

- Developed a real-time human detection system using ESP32-CAM .
- Implemented object detection model for identifying human presence in video stream.
- Integrated Wi-Fi communication for remote monitoring and alert notifications.
- Designed for security and surveillance applications.

Training and hands-on Experience

Embedded Systems – LPC1768 Microcontroller
Sense Semiconductor and IT Solutions

- Trained on LPC1768 (ARM Cortex-M3) with hands-on bare-metal programming.
- Implemented timers, interrupts, and peripheral interfacing (GPIO, UART, SPI).
- Completed SD Card and RFID interfacing projects.

Skills

C Programming

Bare metal programming

Digital Electronics

Problem Solving

Team Collaboration

Area of Interest

Embedded system

Internet of Things (IoT)

Certifications

Bare metal programming
(SSIT)

Awards

Automatic Sorting System
(ISF Congress)
3rd - Prize