

KATHIRVEL A

EMBEDDED DEVELOPER

CONTACT

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 Karur,TamilNadu

 [Github-Kathirvel-25](#)

EDUCATION

- HSE - 93.4%
- B.E - Electronics and Communication Engineering in Government College of Engineering, Salem (2022-2026)
CGPA = 7.81

SKILLS

- C/C++, Embedded C, Python
- Embedded Concepts : Bare-Metal Programming
- Microprocessor & Microcontroller
- Protocols: USART, SPI, I2C
- Peripherals: ADC, DAC, Timers, PWM
- Familar with MCU STM32(ARM Cortex-M),Arduino, ESP32
- Basics of PCB Design
- Sotware Tools : Arduino IDE, STM32Cube IDE, VS Code, Kicard 9.0
- Advances Computer Vision :
Medipipe,OpenCV

CERTIFICATION

- Embedded C- Udemy

WORKSHOP:

- Embedded Systems with IOT
- Hands-on Training on Measuring Instrumentss

CAREER OBJECTIVES

I am an Embedded systems enthusiast with strong hands-on experience in STM32, ESP32 and bare-metal Embedded C. Seeking roles in product development and Embedded systems engineering .

PROJECTS

• DataLogger Using STM32:

Developed an STM32-based data logger acquiring GPS data via USART1 and analog sensor data through ADC, with real-time display on USART2 using interrupt-driven operation and data storage in W25Q64 SPI flash memory.

• ESP32-Based IoT Gas Leakage Monitoring and Alert System

This ESP32-based IoT project monitors gas levels using a gas sensor, displays data on an I2C LCD, and triggers alerts via LED and buzzer when thresholds are exceeded, with ESP32 wireless connectivity enabling remote monitoring.

LEADERSHIP & ACTIVIES

- Served as class representative from the second semester to the present, acting as a liaison between students and faculty and coordinating academic communication and class activities.