

Jeevan N M

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[JEEVAN-NM](#)

Profile Summary

- Proficient in programming microcontrollers, particularly the PIC18F4580, with hands-on experience in embedded programming and IoT development.
- Completed various projects utilizing Arduino and PIC microcontroller systems focused on real-time systems, sensor interfacing, and secure data communication.
- Demonstrates problem-solving abilities and technical expertise in embedded systems design, firmware development, and data transmission protocols
- Eager to leverage skills and knowledge to contribute to the development of innovative embedded solutions and enhance firmware functionality in a dynamic engineering environment.

Relevant Coursework

- Embedded System development
- Communication Protocols
- Software Development Life Cycle
- Debugging GDB

Experience

Emertxe Information Technologies - Advanced Embedded System Course June 2023 – Mar 2024

- Gained hands-on experience in embedded systems development with a focus on microcontroller programming (PIC18F4580), and sensor interfacing.
- Worked on embedded firmware development.
- Completed projects involving UART, I2C, and SPI communication protocols.

Projects

LSB Image Steganography / C Programming, GDB Compiler / [GitHub Repository](#) Dec 2023

- This project helps us to securely hide and transmit data within digital images by modifying the least significant bits. The project ensures confidentiality by embedding messages without significantly altering the image quality.

Illegal Tree Cutting Prevention System / Arduino uno, ESP8266 NodeMCU Dec 2022

- This project detects unauthorized tree cutting using sensors and GPS tracking, sending instant alerts to authorities. It provides a real-time dashboard to monitor forest areas and track deforestation activities.

Car Black Box / PIC18F2580, MPLAB/ [GitHub Repository](#) Feb 2024

- The Car Black Box project enhances vehicle safety by recording critical data helping in accident analysis and fault detection.
- Developed a car black box using Embedded C, PIC18F4580, and necessary peripherals to record critical events like speed, GPS data, and sensor readings.

Technical Skills

Languages: C Programming, Shell Scripting, Embedded C.

Embedded Controllers: Timers, Counters, Interrupts.

Communication Protocols: UART, SPI, I2C.

Development Environment & Tools: GCC, GDB, XC8, Makefiles, MPLab.

Education

GM Institute of Technology Aug 2019 – May 2023

Bachelor of Engineering – CGPA: 6.75

Davangere, Karnataka

Certifications

- Completed Advanced Embedded System Course – [View Certificate](#)
- Earned 5 Star in C Programming at Hacker Rank – [View Credentials](#)