

Varshithreddy Anireddy

Embedded Systems Engineer | C, C++, Embedded C | ARM7, 8051, LPC2148 | UART, I2C, SPI | Vector India Certified

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Professional Summary

Embedded Systems Engineer with hands-on experience in microcontroller programming (ARM7, LPC2148, 8051) and strong proficiency in C, C++, and Embedded C. Trained at Vector India with project experience in real-time embedded applications using RTC, LCD, keypads, and communication protocols like UART, I2C, and SPI. Published research in IoT and Raspberry Pi-based systems. Passionate about building efficient firmware solutions and eager to contribute to challenging embedded roles in product-based or R&D companies.

Technical Skills

- Languages: C, C++, Embedded C
- Microcontrollers: ARM7 (LPC2148), 8051, Raspberry Pi, Arduino
- Protocols: UART, SPI, I2C, CAN
- Tools: Keil uVision, Flash Magic, Proteus
- OS: Linux (basic)
- Certifications: Embedded Systems – Vector India, Cisco CCNA v7

Projects

- Power-Saving Signboard System Using RTC

Technologies: LPC2148, LCD, Matrix Keypad, Interrupts

- Designed a time-based power control system for digital signboards using RTC and keypad interface.
- Used Embedded C to integrate LCD display and minimize power usage during off-hours.
- Applied low-level programming concepts with timer interrupts for real-time scheduling.

- IoT-Based Health Monitoring System

Technologies: Arduino, Wi-Fi Module, Sensors

- Developed a real-time patient monitoring system using heart rate and temperature sensors.
- Data sent over Wi-Fi and visualized remotely; optimized for low power and compact size.
- Published in ODJ Journal.

- GPS-Based Vehicle Authentication System

Technologies: Raspberry Pi, GPS Module

- Built a real-time vehicle tracking solution with GPS and user authentication.
- Collected and processed GPS data using Python and embedded logic on Raspberry Pi.
- Published design and analysis in a recognized conference.

Education

B.Tech – Electronics and Communication Engineering

ACE Engineering College, Hyderabad | 2023 | 64%

Intermediate (MPC) – Pratibha Junior College | 2019 | 91%

SSC – Crescent High School | 2017 | 97%

Training

Embedded Systems Certification – Vector India (7 months)

- Learned Embedded C, RTOS basics, ARM7 (LPC2148), 8051 programming
- Practical experience in interfacing, protocol simulation, and real-time logic implementation

Languages

English | Telugu | Hindi