

GUGAN M

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CAREER OBJECTIVE

Embedded Systems Engineer with experience in microcontroller programming, sensor integration, and embedded C/C++ development. Former Robotics Trainer with a passion for IoT and automation. Looking for opportunities in Embedded Systems, Firmware, or IoT Development.

TECHNICAL SKILLS

- Programming Languages: C, C++, Embedded C
- Microcontrollers: Arduino, ARM Cortex, ATmega
- Embedded Systems: GPIO, Timers, Interrupts, ADCs, PWM
- Communication Protocols: SPI, I2C, UART
- Operating Systems: Basic understanding of RTOS
- Tools: Arduino IDE, Proteus, Keil uVision, Fritzing
- Sensors/Modules: IR, Ultrasonic, PIR, DHT11, LCD, Servo, Relay

PROFESSIONAL EXPERIENCE

STEM Innovation Engineer

STEMROBO Technologies Pvt Ltd | Jan 2024 – Present

- Built educational robotics and automation projects using Arduino and sensors.
- Programmed embedded systems with Embedded C and tested hardware functionality.
- Collaborated on cross-functional teams to prototype and improve engineering models.
- Trained 200+ students on hands-on robotics and embedded logic.

PROJECTS

Multilevel Security-Based Access Control System

Final Year Project | 2023

- Developed a secure access system using RFID and password validation with Arduino.

- Integrated LCD and buzzer for feedback and alerts, used relay to control access.

EDUCATION

B.E. in Electrical and Electronics Engineering

Anna University Regional Campus | 2023 | CGPA: 8.8

Diploma in Electrical and Electronics Engineering

Cheyar Polytechnic College | 2020 | 92%

HSC – Govt Hr Sec School | 2018 | 60%

SSLC – Subramaniya Sastriyar Hr Sec School | 2016 | 75%

CERTIFICATIONS

- Embedded Systems – Vector India, Chennai (Nov 2023)
- STEM Robotics and Innovation – STEMROBO Technologies

SOFT SKILLS

- Communication & Presentation
- Team Collaboration
- Multitasking & Prioritization
- Self-Motivation & Discipline

LANGUAGES

- English – Proficient
- Tamil – Native

(Gugan M)