

Merugupala Praveen

Email: praveenvector123@gmail.com

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Career objective:

To utilize my skills in C/C++ programming, embedded systems to contribute to innovative projects. I aim to grow as a proactive team player while delivering high-quality solution in a dynamic work environment.

Education Qualification:

- **Graduation (Nov 2020 – March 2023)**
Bapatla Engineering College
Bachelors of Technology – Electrical and Electronics – 71.68%
- **Diploma (July 2017 – May 2020)**
Diviseema Polytechnic College
Electrical and Electronics – 81.25%
- **SSC (2017)**
A.Z.P.High School
CGPA - 8.2

Skills:

- **Programming Languages:** C, C++, Data structures and Embedded C.
- **Operating system:** Linux.
- **Communication Protocols:** UART, I2C, SPI and CAN.
- **IPC's:** message queues, shared memory, PIPE, FIFO.
- **Tools:** Keil IDE, GDB.
- **Microcontroller:** LPC2148, LPC2129.

projects:

- **Vector India Pvt Ltd: Bank Locker Security System Using Fingerprint Verification .**
 - Designed and implemented a two-level security system for bank lockers using password and fingerprint verification .
 - Interfaced and programmed R305 fingerprint module and keypad to provide dual-level authentication.
 - Utilized EEPROM (AT25LC512) for secure password storage and retrieval with SPI communication.
 - Integrated peripherals including LCD, DC motor, and UART for user interface and control.
 - Developed modular code in Embedded C for reusable components like LCD, keypad, UART, and EEPROM.
 - Implemented features for password change, fingerprint enroll/delete, and secure access verification.
 - Used interrupt-driven programming and UART-based debugging for efficient embedded system design.

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- **Academic Project:IoT Based Solar Power Monitoring System- 6months.**
 - Designed and implemented an **IoT-based solar power monitoring system** using Arduino(Atmega328P microcontroller), WiFi module, current and voltage sensors.
 - Developed a system for wireless data transmission using a WiFi module to visualize data on smartphones and cloud platforms.
 - Enabled remote monitoring and analytics via cloud-based platforms for better energy management.
 - Integrated solar panels and a solar charge controller for renewable energy input and regulation.
 - Built a user interface for real-time visualization on LCD display and cloud dashboards.

Certifications:

- **Embedded System-Course**
Vector India Pvt. Ltd - Mar 2025
Acquired foundational knowledge in embedded system design and development.

Strengths:

- Discipline
- Self-motivated person
- Optimistic
- Quick learner

Personal Info:

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Declaration:

I here by declare that all the details furnished above are true to the best of my knowledge and feel responsible for any discrepancy.

Place:

Date :

M.PRAVEEN