VIKRANTH V

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PROFESSIONAL SUMMARY

Third-year ECE student specializing in IoT and Embedded Systems, with hands-on experience in ESP32-based systems, sensor integration, MQTT/Firebase cloud connectivity, and real time data acquisition. Experienced in building end-to-end IoT prototypes involving firmware development, sensor interfacing, and cloud dashboards. Seeking Embedded / IoT / Firmware Engineering internships or entry-level roles.

EDUCATION

Bachelor of Technology in Electronics and Communication Engineering

SRM Institute of Science and Technology | **CGPA: 9.35** **Aug 2023 – May 2027**

SKILLS

Embedded & IoT: ESP32, Arduino Uno, Raspberry Pi, Sensor Interfacing, MQTT, I2C, UART

Programming: C (Embedded), Python, Java (Core)

Tools & Platforms: Arduino IDE, VS Code, Git, Firebase Console

Databases: MySQL (basic CRUD)

Simulation Software: Proteus, Tinkercad, Wokwi

WORK EXPERIENCE

IoT Intern

SortyX Ventures Private Limited **June 2025 - July 2025**

- Worked on IoT and robotics prototypes using ESP32 and microcontrollers.
- Integrated sensors, wireless modules, and assisted in PCB-level prototyping.
- Implemented MQTT-based communication, received letter of Recommendation for impactful contributions.

Embedded Systems Trainee

National Small Industries Corporation **Dec 2024 - Jan 2025**

- Gained hands-on experience in industrial processes and small-scale manufacturing ecosystems.
- Worked on IoT projects involving Raspberry Pi implementation.
- Developed understanding of industrial automation and manufacturing systems.

PROJECTS

SEMOS (Smart Energy Management and Optimization System) **Sep 2025 - Oct 2025**

- Designed and implemented IoT-based energy monitoring and control system using ESP32.
- Implemented automated load control to reduce power wastage and tested system using simulated residential load patterns.
- Visualized real-time energy data on cloud dashboard.

Water Quality Monitoring System using IoT **Jun 2025 - Jul 2025**

- Designed a ESP32-based system integrating pH, TDS, turbidity, and temperature sensors.
- Implemented real-time data upload to Firebase using WiFi and MQTT.
- Calibrated pH and TDS sensors using standard reference solutions.

Smart Parking Lot Management System **Oct 2023 - Nov 2023**

- Built Arduino-based parking prototype using IR sensors and servo motors.
- Integrated I2C LCD for real-time slot availability display.
- Tested prototype with multiple vehicle-entry scenarios.

CERTIFICATION

- 'Verilog HDL Fundamental for Digital Design Verification' by Udemy
- 'ISF Member' by Institution of Electronics and Telecommunication Engineering Society
- 'Appreciation for Event Handling' by SRM IETE ISF