

Suhash M

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SUMMARY

ECE student specializing in IoT and embedded systems. Skilled in microcontrollers, automation, and wireless technologies. Driven to develop reliable and impactful engineering solutions.

EDUCATION

Jerusalem College of Engineering

Bachelor of Engineering in Electronics and Communication Engineering; CGPA: 8.2/10

Chennai, India

Expected 2026

TECHNICAL SKILLS

Languages: Python, Embedded C, C++

Embedded/IoT: Thingspeak, Blynk, MQTT, Sensor Networks, basic Cloud Computing

Microcontrollers: Arduino, STM32, Raspberry Pi, ESP32, ARM processors

Tools/IDEs: Arduino IDE, STM32CubeIDE, MATLAB & Simulink, KiCad, Proteus, Git, GitHub

Networking: GSM/GPRS, LoRaWAN, Wi-Fi, Ethernet, IP/TCP fundamentals

OS: Linux (basic)

Soft Skills: Problem-Solving, Teamwork, Communication

EXPERIENCE

Deep Sea Technology Intern

June 2024 – July 2024

National Institute of Ocean Technology (NIOT)

Chennai, India

- Developed microcontroller-based systems for real-time underwater sensor data acquisition.
- Used MATLAB to analyze and visualize marine data for identifying key trends.
- Supported integration of sensor data into an IoT-style monitoring environment.

Network Engineering Intern

Aug 2023 – Sep 2023

Bharat Sanchar Nigam Limited (BSNL)

India

- Observed GSM/GPRS and fiber-optic communication systems in live telecom networks.
- Assisted in troubleshooting and maintenance of network infrastructure.
- Studied optical fiber and IP networking concepts for high-speed data transmission.

Embedded Systems Intern (Simulated)

Jan 2023 – Mar 2023

Lion Circuits India

Remote

- Worked on simulated firmware development for low-power IoT devices.
- Helped debug I²C and SPI communication issues in embedded setups.
- Prepared concise technical documentation and project reports.

PROJECTS

Smart Vibration Analyzer | Arduino, Sensors, Embedded C

- Designed a real-time vibration monitoring and basic fault detection system using an accelerometer and Arduino Uno.
- Applied simple analytics for early fault detection and predictive maintenance.

Smart Agriculture Monitoring System | Microcontroller, Blynk, IoT

- Monitored soil moisture, temperature, and humidity using sensors connected to a microcontroller.
- Used Blynk-based dashboard and remote control for irrigation to improve water usage.

Smart Home Automation System | Raspberry Pi, MQTT, Automation

- Implemented Raspberry Pi as a central hub communicating with smart devices via MQTT.
- Configured motion-based and scheduled lighting for energy efficiency and basic security.

ACHIEVEMENTS

- IIT PLAS INNOWHA Pre-Finalist: Led a team designing a blockchain-based voting system for secure, transparent elections.
- Smart India Hackathon Pre-Finalist: Contributed to a hardware-focused solution with rapid prototyping and testing.
- Vice President, Technovation Club: Organized workshops and events promoting innovation and peer learning.

CERTIFICATIONS & LANGUAGES

Certifications: Certified IoT Developer; Embedded Systems with C and C++; AWS Certified IoT Specialty (Simulated)

Languages: English (Professional), Tamil (Native), Kannada (Native)