

Suhash M

+91-76394 53407 | suhashsugi369@gmail.com | Chennai, India | [linkedin](#)

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 <i>Bachelor of Engineering in Electronics and Communication Engineering; CGPA: 8.2/10</i>	Chennai, India Expected 2026
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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 <i>National Institute of Ocean Technology (NIOT)</i>	June 2024 – July 2024 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 <i>Bharat Sanchar Nigam Limited (BSNL)</i>	Aug 2023 – Sep 2023 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) <i>Lion Circuits India</i>	Jan 2023 – Mar 2023 Remote
• Worked on simulated firmware development for low-power IoT devices. • Helped debug I ² C and SPI communication issues in embedded setups. • Prepared concise technical documentation and project reports.	

PROJECTS

Smart Vibration Analyzer <i>Arduino, Sensors, Embedded C</i>	• 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 <i>Microcontroller, Blynk, IoT</i>	• 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 <i>Raspberry Pi, MQTT, Automation</i>	• 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)