

# Suhash M

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

## 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

Chennai, India

National Institute of Ocean Technology (NIOT)

- 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

India

Bharat Sanchar Nigam Limited (BSNL)

- 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

Remote

AICTE India

- Worked on simulated firmware development for low-power IoT devices.
- Helped debug I<sup>2</sup>C 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)