DEVASHISH SAMBHARE

Electronics / Embedded System Engineer
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Education

B.Tech Nov 2020 - Jun 2024
Electronics and Communication Engineering at Acropolis Institute of Technology and Research
(CGPA: 8.27/10.0)

Technical Experience & Projects

• **PDT – Price Difference Trading (Simulation Tool)** Feb 2026 – Ongoing
Developed a trading system prototype to simulate ultra-fast cross-exchange trade execution with automated entry and exit logic. Implemented limit order handling, execution timing simulation, cancellation rules, and trade history persistence.
Role: Developer (AI-assisted full-stack development)

• **Vehicle Security System (VSS)** Mar 2024 – Apr 2024
Developed an embedded system using GSM, Neo6M GPS, and Arduino for vehicle security.
Role: Independent Developer

• **Hydroponic System using ESP32** Jan 2024 – Mar 2024
Built an IoT-based system using ESP32, sensors (pH, EC, potassium, temp, water level), solenoid valve, and water pump for automated nutrient control and ThingSpeak-based monitoring.
Role: Developer

• **Weather Monitoring System** July 2023 – Aug 2023
Designed and implemented a weather monitoring system using ESP32 and DHT11 sensor.
Role: Independent Developer

• **Home Automation using ESP8266** Feb 2023 – Mar 2023
Controlled electronic appliances using Wi-Fi and IR remote.
Role: PCB Designing & Hardware-Centric Tasks

Achievement

- Secured 2nd position in Intra-Institution Innovation Competition 2024, organized by IIC.
- Winner of IOT Competition 2023 in which 100 Students participated, organized by AITR, Indore.

Career Development Activities (2024-25)

- Appeared in GATE ECE 2024 – missed cutoff by 1.25 marks.
- Appeared in RBI Grade B 2024.
- Appeared in BEL Probationary Engineer (ECE) 2025 – missed cutoff by 8 marks

Skills

Embedded Platforms & Programming: Embedded Systems, IoT, STM32 CubeIDE / MX / Programmer, Arduino IDE, Embedded C, Python, RTOS-Free RTOS, Debugging, Linux, Windows.

Hardware & Circuit Design: ESP32, NodeMCU (ESP8266), Arduino Uno / Nano, STM32F1 Microcontroller, ST-Link V2, DHT11/DHT22, Neo-6M GPS, GSM SIM900A, Analog & Digital Electronics.

Communication Protocols: CAN, SPI, I^2C, UART, RS-232, RS-485.

Design & Productivity Tools: PCB Design (EasyEDA), Circuit Simulation (TinkerCad, PartSim), PLC (Allen-Bradley RSLogix 500), GitHub, MS Office Suite (Word, PowerPoint, Excel).

Certificates

Embedded Systems, IoT, and PCB Design – Pantech ProEd Pvt Ltd
Electric Cars Technology – Delft University of Technology
C Programming Training certified by Spoken Tutorial Project, IIT Bombay
Sensors Study – University of Colorado