

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

• 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, I²C, 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

Sensors Study – University of Colorado