Ayush Billore

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EDUCATION

VIT Bhopal University
B. Tech in Electronics and Communication Engineering CGPA: 9.01/10 Expected June 2026

LNP Govt. Higher Secondary School Harda, Madhya Pradesh
Class XII Percentage: 93.0% May 2022

LNP Govt. Higher Secondary School Harda, Madhya Pradesh
Class X Percentage: 96.5% May 2020

TECHNICAL SKILLS

• Programming Languages: Java, C, Embedded C, SQL

• Tools: ESP32, Arduino, Blynk IoT, LTSpice, Tinkercad, Keil, Arduino IDE

• Coursework: Embedded Systems, IoT, Microcontrollers

ACADEMIC PROJECTS

Aquatic Life Monitoring System

June 2023-Aug 2023

Embedded Systems & IoT

- Developed an innovative solution to help maintain healthy aquatic environments by automatically measuring important water quality parameters such as TDS, pH, and turbidity. Achieved 90% accuracy in real-time measurement through sensor calibration. The system also provides early warnings when parameters exceed safe thresholds.
- Technologies: TDS Sensor, pH Sensor, Turbidity Sensor, ESP32, Arduino IDE, C++. [GitHub].
- Role: Embedded logic design, sensor fusion, and integration.

IoT-Based Garbage Level Monitoring System

July 2024-Sep 2024

Embedded Systems & IoT

- Designed a real-time garbage monitoring system using ultrasonic sensors with an ESP32 to accurately detect waste levels. After calibration, the system achieved 88% accuracy and transmitted data over Wi-Fi to the Blynk cloud platform, providing live visualization. This solution helps optimize waste management.
- Technologies: ESP32, Arduino UNO, Ultrasonic Sensor, Blynk IoT, C++. [GitHub].
- Role: Sensor integration, calibration, and firmware development.

Home Automation System

Jan 2025-April 2025

Embedded Systems

- Developed a flexible smart home system that integrates temperature, ultrasonic, and LDR sensors with an ESP32 microcontroller. The system intelligently adjusts the environment in real time, achieving 80% accuracy in maintaining optimal conditions based on sensor data. It also allows remote control of appliances.
- Technologies: ESP32, Ultrasonic, LDR, Temperature Sensor, Fan, C++. [GitHub].
- Role: Embedded logic design, sensor fusion, and integration.

EXPERIENCE

Embedded System Design Internship

Maven Silicon

Externship

Jan 2025-April 2025

• Completed an externship remotely with Maven Silicon, where I worked on a "Home Automation" project focusing on embedded solution design and implementation. During this experience, I enhanced my skills in microcontroller interfacing and Embedded C programming. [Drive].

CODING

• Solved 400+ problems on GeeksforGeeks.

Extra-Curricular & Achievements

- Awarded the "STARS" Scheme Scholarship by VIT Bhopal
- 1st Rank in District (12th), 2nd Rank in District (10th)
- Finalist in VITB Unplugged

Additional Information

- Languages: English, Hindi
- Hobbies: Watching and Playing Cricket, Mobile Gaming