Ayush Billore

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EDUCATION

VIT Bhopal University		Bhopal, Madhya Pradesh
B.Tech in Electronics and Communication Engineering	9.0/10	Oct 2022 – Ongoing
LNP Govt. Higher Secondary School		Harda, Madhya Pradesh
Class XII	93.0%	May 2022
LNP Govt. Higher Secondary School		Harda, Madhya Pradesh
Class X	96.5%	July 2020

TECHNICAL SKILLS

- **Languages / Tools:** Java, C, Embedded C, Blynk IoT, LTSpice, Tinkercad, Keil
- **Coursework:** Embedded Systems, IoT

ACADEMIC PROJECTS

Aquatic Life Monitoring System — Sep 2023
Embedded Systems & IoT

- Developed a system to measure key water quality parameters—TDS, pH, and turbidity—for maintaining healthy aquatic environments.
- Achieved **90% accuracy** in real-time measurement of water quality metrics through sensor calibration.
- **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 — Aug 2023
Embedded Systems & IoT

- Designed a real-time garbage monitoring system using ultrasonic sensors and ESP32. Achieved **88% accuracy** in level detection after calibration. Enabled Wi-Fi-based data transmission using Blynk cloud for visualization and alerts.
- **Technologies:** ESP32, Arduino UNO, Ultrasonic Sensor, Blynk IoT, C++ [GitHub].
- **Role:** Sensor integration, calibration, and firmware development.

Home Automation System — April 2025
Embedded Systems

- Developed a modular smart home system with temperature, ultrasonic, and light sensors using ESP32. Achieved **80% accuracy** in automated environmental control based on real-time sensor data.
- **Technologies:** ESP32, Ultrasonic, LDR, Temperature sensor, Fan, C++ [GitHub].
- **Role:** Embedded logic design, sensor fusion, and integration.

EXPERIENCE

Embedded System Design Internship — VIT Bhopal
Externship — April 2025

- Worked on "Home Automation" project, focusing on embedded solution design and implementation
- Improved skills in microcontroller interfacing, and embedded C programming [Certificate].

CODING

- Solved 350+ problems on GeeksforGeeks.

EXTRA-CURRICULAR & ACHIEVEMENTS

- Awarded "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 & Playing Cricket, Mobile Gaming