Ayush Billore

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EDUCATION

VIT Bhopal University	Bhopal, Madhya Pradesh
B.Tech in Electronics and Communication Engineering 8.97/10	Oct 2022 – Ongoing
LNP Govt. Higher Secondary School	Harda, Madhya Pradesh
Class XII 94.0%	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
- **Course - Work:** Embedded Systems, IoT

ACADEMIC PROJECTS

Rapid Rescue with Smart Ambulance July 2024 – Ongoing
Embedded Systems
- Engineered a real-time IoT solution to improve emergency response efficiency through smart routing and dynamic traffic signal prioritization. Achieved an estimated **75% accuracy** in real-time GPS-based location updates.
- **Technologies:** Raspberry Pi, ESP32, GPS module, Blynk IoT, C++
- **Team Size:** 9 | **Role:** Led sensor fusion and hardware-software 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++
- **Team Size:** 2 | **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++
- **Team Size:** 6 | **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, firmware development, and embedded C programming.

CODING

- Solved 300+ 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