

Ayush Billore

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Education

VIT Bhopal University

B.Tech in Electronics and Communication Engineering

- Cumulative GPA: 8.97/10

Bhopal, Madhya Pradesh

Oct 2022 – Ongoing

LNP Govt. Higher Secondary School

Class XII

- Percentage: **94.0% (1st Rank in District)**

Harda, Madhya Pradesh

May 2022

LNP Govt. Higher Secondary School

Class X

- Percentage: **96.5% (2nd Rank in District)**

Harda, Madhya Pradesh

July 2020

Academic Projects

Rapid Rescue with Smart Ambulance

July 2024 – Ongoing

Hardware & Software Integrator

- Designed a smart IoT-based system providing emergency services, smart navigation, and traffic signal manipulation.
- **Technologies:** Raspberry Pi, ESP32, GPS Module, C++, Blynk IoT, HTML, CSS
- Team Size: 9 | Role: Sensor Fusion and Integration

IoT Based Garbage Level Monitoring System

Aug 2023

Microcontroller Programmer

- Developed a smart waste management system using sensors to notify authorities upon bin overflow.
- **Technologies:** Ultrasonic Sensor, Arduino UNO, ESP32, Blynk IoT, C++
- Team Size: 2 | Role: Sensor Integration & Programming
- **GitHub Project Link**

Home Automation System

April 2025

Hardware & Sensor Integrator

- Built a smart home system to monitor and control appliances using real-time sensor data.
- **Technologies:** ESP32, Ultrasonic, LDR, Temperature Sensor, Fan, C++
- Team Size: 6 | Role: Hardware Integration and Sensor Fusion
- **GitHub Project Link**

Technical Skills

- **Languages:** Java, C, Embedded C, MATLAB
- **Domains:** Embedded Systems, IoT, Signal Processing, Computer Vision
- **Tools/Platforms:** ESP32, Arduino, Blynk IoT, Raspberry Pi

Certifications

- **Applied Machine Learning in Python** – Coursera
- **Introduction to Electronic Sensors** – Alison
- **MATLAB Signal Processing**
- **MATLAB Image Processing**
- **MATLAB Computer Vision**

Experience

Embedded System Design Internship

VIT Bhopal

Externship

April 2025

- Worked on “**Home Automation**” project involving **sensor-based automation, embedded C programming, microcontroller interfacing, real-time data processing, and firmware development** on ESP32 and Arduino platforms.

Co-Curricular Activities

- **5-Star** on HackerRank in Python and Java
- 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)
- Active Member of **Coding Blocks Club**
- Completed **30 Days** of Java Challenge – HackerRank
- Completed **50 Days** Coding Challenge – GFG
- Completed **51 Days** IoT Challenge – DrGVishwanathan

Additional Information

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