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Ayush Billore

-Languages / Tools: Java, C, Embedded C, MATLAB, LTSpice, Tinkercad, Keil,
-Coursework: Embedded Systems, IoT, Power Electronics, PCB Designing.

EDUCATION

Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (ECE)	Oct 2022 –Ongoing	VIT Bhopal University	9.01/10
Class XII	May 2022	LNP Govt. Higher Secondary School,Harda	93.0%
Class X	July 2020	LNP Govt. Higher Secondary School,Harda	96.5%

ACADEMIC PROJECTS

Smart Monitoring & Control	**Aquatic Life Monitoring System** (July 2024) -Description:-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++. -Team Members:- 2 members -Role:- Integrating Hardware & Software, Sensor Fusion.
Embedded Systems & IOT	**IOT Based Garbage level Monitoring System** (August 2023) -Description:- An intelligent waste management system that uses IoT sensors to monitor garbage levels in real-time. It optimizes waste collection by notifying authorities when bins are full, improving efficiency and cleanliness. -Technology:-Ultrasonic Sensors, Ardiuno UNO, Esp 32,C++, Blynk IOT . -Team Members:- 2 members -Role:- Designed and implemented sensor integration and microcontroller programming.
Smart Monitoring & Control	**Home Automation** (April 2025) -Description:- Developed a smart home automation system using ESP32, integrating temperature, light, and ultrasonic sensors. Enabled real-time monitoring and remote control through Wi-Fi connectivity. -Technology:- ESP32, Ultrasonic, LDR, Temperature sensor, Fan,C++. -Team Members:- 2 members -Role:- Integrating Hardware & Sensor Fusion.

EXPERIENCE

Externship	**Embedded System Design Internship** (April 2025) -Worked on a project **"Home Automation"**,focusing on designing and implementing embedded solutions. Improved skills in **embedded system programming**, including microcontroller interfacing and firmware development.

CO-CURRICULARS

Coding	-400 + GFG Problems

EXTRA-CURRICULARS AND ACHIEVEMENTS

Achievements	-Awarded with "STARS" Scheme scholarship by VIT Bhopal University, -Second place in district in 10th board -First place in district in 12th board
Extracurricular	-Finalist in VIT Unplugged

ADDITIONAL INFORMATION

Hobbies	Watching and playing cricket, Playing Mobile Games
Languages	English, Hindi.