

Krishna Rathwa

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Education

VIT Bhopal University B.Tech in Electronics and Communication Engineering	8.54/10	Bhopal, Madhya Pradesh Oct 2022 – Ongoing
The New Era Public H.S School Class XII(CBSE)	76.8%	Indore, Madhya Pradesh May 2022
Sandipani Vidhya Vihar H.S School Class X(CBSE)	77.8%	Indore, Madhya Pradesh July 2020

Technical Skills

Languages / Tools: C++, Embedded C, LTSpice, Keil, DSA, Project Management.

Coursework: Embedded Systems

Academic Projects

Gas Level Monitoring System
Embedded Systems & IoTAug 2023

- Constructed a **gas level monitoring system** to provide preventative alerts.
- Achieved 98% accuracy in detection for hazardous gas level and reducing response time by 70%.

Technologies: MQ-02 sensor, Raspberry Pi Pico, LED Display, Temperature sensor, Matlab.

Role: Firmware development, multi-sensor data synthesis, and system integration.

Designing Sensors through HEMET using CadenceOct 2023
VLSI Design & IC Design

- Designed and simulated sensors using HEMET technology in Cadence, focusing on optimizing sensor performance.
- Reduced power consumption by 15% and improved detection accuracy by 20% through iterative design optimizations.

Technologies: Cadence software.

Role: Designing and simulation of sensors using HEMET in cadence.

Home Automation SystemApril 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++.

Role: Embedded logic design, sensor fusion, and integration.

Experience

Electronics Engineer InternDr. Ambedkar Lab Foundation (NGO)
Non-Profit OrganizationNov 2023 - Dec 2023

- Engineered and prototyped 3+ new Embedded systems.
- Mentored a cohort of 25+ students in robotics, coding, and STEM education.
- Optimized and troubleshooted existing Embedded Systems, reducing system errors by 15%.

Extra-Curricular Achievements

Managed National Symposium on Innovations in Intelligent Systems, VIT Bhopal.

Core Member, IEEE Chapter VIT Bhopal University.

Event Management Head, VITronix Club VIT Bhopal.

Additional Information

Languages: English, Hindi

Hobbies: Watching Playing Cricket, Mobile Gaming