

SHREYA BHATTACHARYA

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PROFILE

Electronics and Communication engineering student with hands-on experience in embedded systems, IoT, and sensor-based automation. Skilled in PCB design, process optimization, and sensor integration for real-time industrial systems. Proficient with MATLAB, Arduino, and Raspberry Pi.

EDUCATION

B.Tech in Electronics and Communication , VIT BHOPAL UNIVERSITY	Oct 2022 – Apr 2026 Bhopal, M.P.
<ul style="list-style-type: none">Current CGPA: 8.40Coursework: Digital Electronics, Embedded Systems, VLSI, Microprocessors	
High Schooling- PCM (10th : 89.8/100 12th : 84.16/100) , ST. XAVIER'S HIGH SCHOOL	2019 – 2021 Hardoi, U.P.
<ul style="list-style-type: none">Gained a strong analytical foundation, problem-solving skills, and practical knowledge in scientific concepts, preparing for an engineering career.	

SKILLS

Technical Skills & Tools: C/C++, Python (basic), MATLAB, VS Code, GitHub, Arduino, Raspberry Pi, MongoDB, LT Spice

Domain: Embedded Systems, IoT, System Integration, Signal/Analog Processing, Computer Vision, Circuit Simulation

Soft Skills: Analytical Thinking, Communication, Team Collaboration, Problem Solving

CERTIFICATIONS

VLSI Design Certification , Maven Silicon	Jan 2025 – May 2025
MATLAB Onramp & Simulink Onramp , Mathwork	Aug 2024
Computer Vision , Vityarthi	Aug 2024 – Oct 2024

PROJECTS

Gas Level Monitoring System	Aug 2023
<ul style="list-style-type: none">Designed a real-time IoT-based monitoring solution using Raspberry Pi and MQ-02.Integrated live data streaming and alert systems to enable 40% faster incident response. Stored sensor data using structured formats suitable for query and visualization.	
Designing BioSensors (HEMT) using Silvaco	Mar 2023
<ul style="list-style-type: none">Designed and simulated sensors using HEMT technology in Cadence.Focused on optimizing sensor performance for precise detection and efficiency, applying semiconductor design principles and advanced modeling techniques.	
VeriValue – Walmart Hackathon Project	Jul 2025
<ul style="list-style-type: none">Created a QR-based traceability web platform for sustainability data and batch-wise product tracking.Useful for supply chain transparency and quality audits in production systems.	
Criminal Detection Using Face Detection	Apr 2025
<ul style="list-style-type: none">Designed and deployed a real-time face detection system using OpenCV and Python for surveillance; integrated camera module on Raspberry Pi and optimized detection with Haar Cascades..Optimized accuracy across diverse conditions for rapid database matching.	

EXTRACURRICULAR ACTIVITIES

Technical Lead , VITRONIX Club	Aug 2024 – Aug 2025
Directed a 25-member team, increasing club engagement by 40% through weekly workshops and coding sessions.	
Volunteer (National Symposium, ANRF)	Feb 2025
Contributed to event execution and logistics; learned coordination and event planning in a technical setup.	