Vishal Khajuriya

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Objective

Motivated and detail-oriented **Electronics and Communication Engineering graduate** from **UIT RGPV, Bhopal**, with hands-on experience in **embedded systems, Arduino-based robotics**, and a keen interest in **AI and automation.** Successfully built a **Bluetooth-controlled Arduino robot**, showcasing my ability to turn theoretical concepts into working prototypes. Passionate about **technology, personal growth, and financial literacy,** with experience leading **college societies.** Skilled in Python, C/C++, and circuit design, with a keen interest in **automation, IoT, and real-world problem solving**. Actively involved in **hackathons**, online tech communities, and collaborative projects, driven by a mindset of **continuous learning and practical execution.**

Education

B.Tech in Electronics and Communication Engineering

UIT, RGPV Bhopal | CGPA: 7.0 | Graduation: 2025

Skills

- **Programming:** C, Python, SQL, MATLAB
- **Libraries:** NumPy, Pandas, scikit-learn, Hugging Face Transformers
- **Data Visualization:** Power BI, Tableau, Matplotlib,
- **AI/ML Tools:** TensorFlow, Keras, PyTorch (basics), Google Colab
- **Networking**: Basics of TCP/IP, routing, switching, DNS, UART, SPI, I2C, Ethernet
- **Embedded & Iot:** Arduino Programming, Sensor Integration, PCB Design, Real-time Systems
- **Tools:** Arduino IDE, TinkerCAD, Multisim, KI-CAD
- **Soft Skills:** Collaboration, Rapid Prototyping, Creative Coding, Problem Solving

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Projects

Bluetooth-Controlled Robot Car

- Designed a robot car using Arduino Uno and HC-05 Bluetooth module.
- Used serial communication and embedded C code for control logic
- Mirrors real-time hardware communication using UART and motor drivers

Face Mask Detection System (Computer Vision) Tools: OpenCV, TensorFlow/Keras

- Trained a CNN model for real-time face mask detection
- Integrated webcam-based detection with 92% test accuracy

Optical Fiber Communication Simulation

- Modeled and analyzed optical links using MATLAB.
- MATLAB simulation for signal transmission and loss over fiber optics

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Internships & Training

Drone Workshop | Participant April 2022

- Hands-on assembly, tuning, and flight testing of drones
- Explored sensor integration and stabilization algorithms

Embedded Systems Workshop |Innovation@EC, UIT RGPV BHOPAL April 2023

- Worked on real-time systems and microcontroller-based robot development
- Introduced to FreeRTOS concepts and debugging using serial monitors

Direct Selling & Business Development |Renatus Wellness pvt lmd. Nov 2024 - Feb 2025

- Built a network of clients and distributors for health and personal care products.
- Trained team members in sales strategies and product knowledge.
- Conducted presentations to educate customers on health benefits and financial opportunities.

Certifications

- Arduino Programming
- Responsible AI – Microsoft Learn
- Sales and Customer Relationship Management

Activities & Achievements

- Participated in Smart India Hackathon 2023 (AI & Innovation Theme)
- Organized workshops on embedded systems.
- Exploring GenAI + Automation; recently tried chaining ChatGPT + Python + Canva API
- Developed an energy monitoring system as part of a team project.
- Helped clients improve lifestyles through product education and financial planning.
