NIMISHA MALLICK

☏ 9819829979 ✉ nimishamallick6@gmail.com linkedin.com/in/nimisha-mallick-74a86a2a1

Recent graduate in Electronics, Communication and Information Engineering with a strong interest in computer networking, telecommunications, IT support, technical troubleshooting, and emerging technologies. Hands-on experience through academic and extracurricular projects involving Raspberry Pi, Python, computer vision, embedded systems, and hardware-software integration. Strong problem-solving mindset with experience working in technical teams and learning new technologies quickly.

TECHNICAL SKILLS

Networking: Computer Networking, TCP/IP, Basic Routing & Switching, Network Troubleshooting, Cisco Packet Tracer, Basic Network Configuration
Programming: Python, C++, JavaScript, Dart
Embedded / Hardware: Raspberry Pi, Embedded Systems, Electronics, Hardware Troubleshooting
AI / Computer Vision: OpenCV, YOLOv8, Computer Vision
Web / Database: HTML, CSS, Node.js, MySQL, PHP
Tools: Git, GitHub, Flutter

CORE COMPETENCIES & KEY SKILLS

- Basic understanding of ISP and telecom networking concepts, including LAN, WAN, TCP/IP, and network connectivity.
- Able to create basic network topologies and practice routing and switching concepts using Cisco Packet Tracer.
- Can troubleshoot basic connectivity, hardware, and configuration issues in a systematic manner.
- Comfortable working in technical teams and documenting or communicating technical issues clearly.

EDUCATION

Kathmandu Engineering College *2021 – 2025*
Bachelors in Electronics, Communication and Information Engineering · Kathmandu

DAV College *2018 – 2020*
+2 · Kathmandu

EXPERIENCE

Hardware Lead *2024 – 2025*
Electronics Project Club · Kathmandu

Vice President *2024 – 2025*
NTBNS KEC · Kathmandu

PROJECTS

Basic Health Monitoring System
Developed a sensor-based health monitoring prototype for collecting and displaying basic physiological readings. Worked on sensor integration, data acquisition, and real-time monitoring within a microcontroller-based setup.

Self-Driving Car
Developed a vision-based autonomous vehicle prototype using Raspberry Pi and a camera for navigation in a controlled environment. Implemented lane detection for steering decisions, YOLOv8n-based object detection, and motor control through an L298N driver.

SmartGlass for Blind
Developed an assistive smart-glasses prototype to support visually impaired users in identifying nearby obstacles. Integrated sensing and embedded components into a compact wearable system for basic environmental awareness.

E-Commerce Management System
Built a web-based e-commerce management system using PHP and MySQL. Designed database-backed functionality for managing product information and connected the web interface with backend data operations.

ACHIEVEMENTS

- SmartGlasses for Blind (Made During LOCUS 2023)
- Minor Project – Basic Health Monitoring System
- Major Project – Self Driving Model using CNN
- Participated in UI/UX Competition (ORBIT EXPO 2025)

TRAINING / CERTIFICATIONS

Hardware Exhibition 2023
LOCUS

Flutter with Dart
WS CUBE TECH

Workshop on Basic Microcontroller and Electronics *2022*
Electronics Project Club (KEC Kalimati)

Robotics Workshop *2023*
Robotics Club KEC