Yogesh Nyaupane

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01. About Me

I am a 5th-semester Electronics, Communication & Information Engineering student with a strong passion for **Artificial Intelligence** and **Robotics**. I focus on bridging the gap between software intelligence and physical hardware through practical projects. Currently studying at the National College of Engineering (Tribhuvan University), I actively explore robotics, embedded systems, and AI-driven solutions.

02. Technical Skills

- **Programming:** Python, C / C++, JavaScript, MATLAB, Desmos
- **Robotics & AI:** ROS2, Arduino / ESP32, Control Systems, AI / ML
- **Web & Tools:** HTML, CSS, React.js, Django, Git & GitHub, Linux (Ubuntu), AWS, Microsoft Azure
- **Electronics & Hardware:** PCB Design, Basic Electronics
- **Soft Skills:** Communication, Teamwork, Problem Solving

03. Projects

- **Autonomous Nav Robot** – ROS2-based mobile robot capable of SLAM and autonomous navigation. *Tech: ROS2, Python, Lidar, Gazebo*
- **AI Object Detector** – Real-time object detection system using YOLOv8 on edge devices. *Tech: Python, YOLOv8, OpenCV*
- **IoT with CV** – Real-time control of IoT devices via computer vision. *Tech: Python, YOLOv8, OpenCV*
- **Line Follower Robot with Obstacle Detection** – ESP32-based robot using IR and ultrasonic sensors. *Tech: ESP32, Embedded C / Arduino, IR Sensors, Ultrasonic, L298N Motor Driver*
- **Self-Balancing Robot** – Two-wheeled Arduino robot using IMU + PID for real-time tilt correction. *Tech: Arduino UNO, MPU6050, PID Control, L298N Motor Driver*
- **IoT Enabled Finance Fraud Detection** – Detects suspicious transactions in real-time and alerts via IoT devices. *Tech: Python/Flask, ML/DL models, Raspberry Pi*

04. Education & Journey

- **2023 – 2027:** B.E. Electronics, Communication & Information Engineering, National College of Engineering (TU)
  Focus: Control Systems, AI, Embedded Systems
- **2023 – Present:** Robotics Club Member, NCE Robotics Club
  Participated in hardware hackathons and mentored juniors in Arduino programming
- **2021 – 2023:** PCMB (+2), Prasadi Academy, Grade 3.69
- **2020:** SEE, Aristo English High School, Grade 3.95

05. Certifications & Training

PCB Design, React Training, Python Training

06. Languages

Nepali – Fluent
English – Fluent

07. Get in Touch

Currently seeking opportunities in AI and Robotics.
GitHub LinkedIn Email