

Nirakar Nepal

Electrical Engineering Student

Lalitpur, Kathmandu • 9866695516 • nirakarnepal71@gmail.com

[in @ https://www.linkedin.com/in/nirakar-nepal/](https://www.linkedin.com/in/nirakar-nepal/)

A resilient student studying Bachelor's of Electrical Engineering at IOE, Pulchowk Campus.

EXPERIENCE

President Kathmandu
Electrical Club Pulchowk Campus May, 2024 - May, 2025

EDUCATION

Bachelor of Electrical Engineering Kathmandu
IOE Pulchowk Campus, Tribhuvan University Apr, 2022 - Present

Intermediate Level Kathmandu
Global School of Science Jul, 2019 - Jul, 2021

Grade: A+

PROJECTS

Harmonic Prediction and Mitigation in Grid Connected PV-system Using Deep Learning Algorithm

Studied "Total Harmonic Distortion" in Grid connected PV-system of Department of Electrical Engineering, Pulchowk Campus. Developed a ANN-based harmonic predictive model.

Co-Optimization of Battery Energy Storage Systems for Voltage Regulation and Reverse Power Flow Control in PV-Enriched LV Distribution Networks

This a multi-objective optimization project is a on-going final year project.

Underground Fault Detection Using IOT

Developed a prototype utilizing a microcontroller capable of swiftly detecting underground faults and providing the distance to the fault within seconds.

ACHIEVEMENTS

IOE Full Scholarship for Undergrad Studies

Full Scholarship for undergraduate studies under the Bachelor in Electrical Engineering (BEL) program of Institute of Engineering (IOE), Nepal.

Winner of Energy Hacakthon 8.0

The research project titled " Harmonic Prediction and Mitigation in Grid Connecte PV-system Using Deep Learning Algorithm", was awarded as best solution in Engery Hacakthon 8.0, 2025

AWARDS

Outstanding Paper Award Kathmandu
IEEE RESSD 2025 2025

Received the Outstanding Paper Award for research contribution presented at the IEEE International Conference

SKILLS

AutoCad, C,C++ python, Machine Learning, Deep Learningg, MATLAB & SIMULINK, Teamwork and Leadership