Dhruba Paudel

Civil Engineer

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OBJECTIVE

As a dedicated civil engineer with a profound interest in structural analysis, geotechnical study, and earthquake & disaster resilience projects, I am eager to pursue avenues for continuous learning and professional growth. My motivation stems from the opportunity to contribute my skills and knowledge toward supporting stakeholders in addressing these critical challenges.

EXPERIENCE

ArEiCon Architects and Engineers Jun 2024 – Aug 2025
Civil Engineer Jwagal, Lalitpur

- Structural analysis and design of low-rise buildings as per NBC 105:2020
- Drafted structural components in AutoCAD (beams, columns, slabs, foundations)
- Prepared BBS and concrete volume estimates for various projects in Israel

Lumbini Gyan Niketan S.S. Nov 2023 – May 2024
Volunteer Teacher Kanchan, Rupandehi

- Taught Mathematics and Physics to $+2$ level Science Stream

EDUCATION

IOE Thapathali Campus, Tribhuvan University 2024 – 2026
MSc in Earthquake Engineering Kathmandu

- **Relevant Courses**: Dynamics of Structure, Solid Mechanics, Seismology, Geotechnical Earthquake Engineering, FEM, Theory of Vibration, Seismic Resistance Design, Non-Linear Analysis
- **Thesis**: *"Seismic Performance of Raft and CPRF Supported Building Considering SSSI"*

IOE Pashchimanchal Campus, Tribhuvan University 2018 – 2023
BE in Civil Engineering Pokhara

- **Electives**: Structural Dynamics, Earthquake Resistant Design of Structures, Time Series Analysis
- **Project**: *"Seismic Analysis and Design of Multistoried Commercial Building"*

PROJECT

MSc Thesis 2025 – 2026
Seismic Performance of Raft and CPRF Supported Building Considering SSSI

- Conducted 3D nonlinear finite element analysis in ABAQUS to investigate seismic SSI and SSSI effects on a 6-storey raft-supported and an 11-storey CPRF building under 2015 Gorkha Earthquake ground motion.
- Compared Fixed Base, SSI, SSSI-No-Gap, SSSI-1m-Gap and SSSI-2m-Gap conditions

BE Project 2022 – 2023
Seismic Analysis and Design of Multistory Commercial Buildings

- Performed seismic analysis of a multi-storied commercial building in compliance with NBC 105:2020, Nepal's national seismic design standard.
- Designed structural components including beams, columns, slabs, and footings, with structural modelling and analysis carried out using ETABS, Autocad, Revit.

CERTIFICATION

General Registered Engineer | NEC | Civil "A" | Reg. No. 79893

Driving License | DOTM | Category A, B

SKILLS

Technical : Structural Analysis, Earthquake Resistant Design, Estimation & Costing, Bar Bending Calculation, Surveying, Design & Drafting

Software : ABAQUS, Plaxis, ETABS, AutoCAD, SketchUp, MS Word, MS Excel, MS PowerPoint

Soft Skills: Leadership, Attention to Detail, Communication, Teamwork & Collaboration, Initiative & Self-Motivation, Problem Solving & Critical Thinking