

Ashim Paudel

Civil Engineer

Julpetar, Hupsekot Rural Municipality, Nawalpur, Nepal

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EDUCATION

Bachelor of Engineering in Civil Engineering

April 2021 – April 2025

Institute of Engineering (IOE), Pulchowk Campus, Lalitpur, Nepal

- Aggregate: **84.60%** — Ranked **6th overall** in the Civil Engineering program
- Secured full merit-based scholarship through IOE Entrance Examination (Rank 15)
- Focused areas: Structural Engineering, Geotechnical Engineering, Transportation Infrastructure, Seismic Analysis, Programming

Higher Secondary Education (+2 Science)

2018 – 2020

Aroma College, Bharatpur, Chitwan, Nepal

- CGPA: **3.93**
- Co-founded the STEM Club; developed strong foundation in Physics and Mathematics

Secondary Education Examination (SEE)

2018

Shree Nepal Loksewa Secondary School, Nawalpur, Nepal

- GPA: **3.95** — Secured **Nawalparasi District Topper** position

PROFESSIONAL EXPERIENCE

Highway Engineer

2026 – Present

Department of Roads, Government of Nepal

Civil Engineer

April 2026 – September 2026

Central Materials Testing Laboratory (CMTL), Pulchowk Campus

Structural Design Consultant (Freelance)

2026

Detailed Design & Estimation — 2.5 Storey Residential Building, Lalitpur

- Designed for an Australian client; used ETABS and AutoCAD for structural analysis and drawings

Civil Engineering Intern

2025

Sani Bheri Hydropower Project

Non-Destructive Testing (NDT) & Damage Assessment

2024 – 2026

- Post-fire Damage Assessment, Chitwan (2026) — Consultant, CMTL
- NDT & Damage Mapping, Upper Tamakoshi Hydropower Project Stilling Basin — post-debris damage (2024)
- NDT & Quality Assessment of RCC Columns, Gautam Buddha International Cricket Stadium (2024)

- Groundwater monitoring survey (2.7 km linear), Listi, Sindhupalchowk (2023)
- Landslide risk assessment, Helambu, Sindhupalchowk (2026)

RESEARCH & PRESENTATIONS

- **Poster Presentation:** “Use of Geocells for Slope Stabilization”
30th Anniversary Conference, Nepal Geotechnical Society (NGS), 2024
- **Poster Presentation:** “Investigating the Effects of Seismic Pounding in a Series of RC Buildings: A Case Study of the Ason Area”
Kathmandu Geo Lab Student Research Symposium, 2025
- **Conference Volunteer & Technical Team Member:** GeoMandu 2024 — “Geotechnics for Sustainable Infrastructure”

Research papers currently under preparation and review (details available upon request).

SELECTED PROJECTS

Hospital Building Design — Final Year Project

2024 – 2025

Comprehensive structural design and analysis of a multi-storey RCC Special Moment Resisting Frame (SMRF) hospital building. Limit-state design of superstructure and substructure, fully compliant with NBC 105:2020 (seismic) and IS 875:1987 (loads). Tools: ETABS, AutoCAD.

OpenSees Resources for Beginners

2022 – Present

Open-source Jupyter notebook repository for OpenSeesPy — covers fiber section modelling, moment-curvature analysis, and structural response under seismic loads. GitHub (20 stars). Tools: Python, OpenSeesPy, Matplotlib.

Python Beam Analysis Package

2021

Custom Python package for static analysis of 2D statically determinate beams — automates shear force, bending moment, and deflection calculations. GitHub (14 stars). Tools: Python, NumPy, Matplotlib.

ACHIEVEMENTS & AWARDS

- **Rank 1** — Federal Public Service Commission Examination, Government of Nepal (2026)
- **Rank 1** — Gandaki Province Public Service Commission Examination (2026)
- **Winner** — Aron Engineering Competition, “Sustainable Innovative Solutions in Civil Engineering” (2026)
- **Runner-Up** — Structural Failure Case Study Analysis Competition (2025)
- **Best Club President Award** — Leo District Council 325 E (2024)
- **Rank 15** — IOE Bachelor of Engineering Competitive Entrance Examination (2020)
- **Golden Jubilee Scholarship** — Indian Embassy in Nepal (2021)
- **Mahatma Gandhi Scholarship** — Indian Embassy in Nepal (2018)
- **SEE District Topper** — Nawalparasi District (2018)

LEADERSHIP & COMMUNITY SERVICE

Leo Clubs International

- Constitution & Bye-Laws Chief, Leo District Council 325 E (2025–2026)
- Zone-I Chair & Environment Chief, Leo District Council 325 E (2024–2025)
- **President**, Kathmandu Valley Leo Club (2023–2024) — Led 25 executives and 85 general members

- Vice President, Kathmandu Valley Leo Club (2022–2023)
- General Member, Kathmandu Valley Leo Club (2021–2022)

Key Initiatives Organised:

- Nyano Initiative — Warm clothing distribution in rural Nepal
- Project Paana — Library establishment, rural school, Makwanpur
- Financial Literacy Workshop for Engineers
- Prastav Ideathon — National-level competition on urban sustainability (25+ teams)
- Eco-Hike — Eco-conscious hiking with waste collection
- Orphanage Donation Drive — UCL Predict & Win fundraiser

Other Roles:

- Coordinator, National Level Shake Table Competition, AIT Thailand Representative (2025)
- Program Coordinator, Prastav — National Level Ideathon Competition (2022)

TECHNICAL SKILLS

Civil Engineering Software	ETABS, OpenSees / OpenSeesPy, AutoCAD, AutoCAD Civil 3D, Bentley RCDC, SAP2000, Plaxis
Programming	Python, C, HTML/CSS, JavaScript
Data & Scientific	NumPy, Pandas, Matplotlib, Jupyter Notebook
Documentation	L ^A T _E X, Markdown, MS Office
Version Control	Git, GitHub
Other	WordPress, VS Code

INTERESTS

Structural & Earthquake Engineering · Geotechnical Engineering · Scientific Programming
 · Open-Source Development · Technical Writing · Hiking · Drawing & Sketching