

BIKALP GHIMIRE

Kageshwori Manohara-09, Kathmandu, Nepal

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EDUCATION

Bachelor's Degree in Civil Engineering

Kathmandu Engineering College, Tribhuvan University, Kathmandu, Nepal

- **Honors:** Full Scholarship in 6 of 8 semesters (Top 6 of 121 students), Academic Scholarship from Government of Nepal (NPR 200,000)

TEACHING & ADVISING

Teaching Assistant

Jan 2022 – Apr 2024

Department of Civil Engineering, Kathmandu Engineering College

- Assisted in guiding students through their final year group project, providing academic support and mentoring.
- Delivered lessons and tutorials on Seismic Analysis and Structural Design of Reinforced Concrete Buildings.
- Provided hands-on guidance in software such as ETABS, SAP2000, and AutoCAD for structural analysis and design.

PROFESSIONAL EXPERIENCE

Airport Design Engineer

Jul 2024 – Present

Euro Consult – Pumori J.V., Tribhuvan International Airport

- Designed a Rapid Exit Taxiways using REDIM and created data visualizations of simulation results using Python.
- Collaborated with ATC and pilots to optimize RET location for operational efficiency.
- Developed animations to illustrate aircraft movements using Vehicle Tracking.

Aerodrome Design Engineer

Jan 2024 – Jun 2024

Pumori Engineering Services (P) Ltd.

- Designed Taxiways, GSE Roads and Apron as per ICAO/ FAA standards.
- Designed Conceptual Drainage System.
- Created and assessed obstacle limitation surfaces (OLS) and taxiway clearance simulations.

Project Engineer

Apr 2022 – May 2023

Pumori Engineering Services (P) Ltd.

- Coordinated construction activities, including take-offs, scopes of work, tendering, tender analysis, contract preparation, scheduling, cost control, and quality assurance.

- Collaborated with Architects and Consultants to review and manage shop drawings and resolve unexpected design issues.
- Worked closely with sub-contractors to address and resolve construction issues and deficiencies, ensuring smooth project execution and compliance with specifications.

Structural Engineer

May 2020 – Apr 2022

Pumori Engineering Services (P) Ltd.

- Designed multi-story structures using ETABS and SAFE, focusing on earthquake resistance.
- Prepared shop drawings and collaborated with architecture and MEP teams.
- Jury Presentation at the municipality office to get building approved for construction.

TECHNICAL SKILLS

- | | |
|--------------------|-----------------------------|
| • Python | • AutoCAD |
| • HTML/CSS | • ETABS |
| • Civil 3D | • SAP2000 |
| • Vehicle Tracking | • SAFE |
| • Infraworks | • IDEA StatiCa |
| • Revit | • Primavera P6 Professional |

OTHER TRAINING/COURSES

- **“HarvardX: CS50’s Introduction to Computer Science”** – Harvard University, 2025
- **“100 Days of Code: The Complete Python Pro Bootcamp”** – Udemy, 2024
- **“Professional in Project Planning and Management Using Primavera”** – Chennai, Thiruvannmiyur, Synergy School of Business Skills, May 2024

FREELANCING EXPERIENCE

Civil Engineer

Dec 2023 – Jun 2024

Heifer International Nepal

Designing of Animal Sheds to be implemented in various regions of Nepal

- Designed goat, buffalo and cattle shed of various capacity including shop drawings and 3D animations.
- Collaborated with agricultural engineers and veterinarians about different standards, requirements, and deliverables.

CAD Engineer

Jan 2020 – Feb 2020

Heifer International Nepal

Designing of Chicken Shed for Layers Chicken and Fattening Units

- Prepared shop drawings (Plan, Elevation, Section, and Typical Details) of Layers Chicken Shed and Fattening Units as per client's requirements.

PROFESSIONAL CERTIFICATE / LICENSE

- Certificate for Registered Engineers issued by Nepal Engineering Council
 - General Engineer License, Regd. No.: 30472 Civil "A" Category

LANGUAGES

- English: Proficient
- Nepali: Native
- Hindi: Conversational