

BIBEK TAMANG

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EDUCATION

B.S, in Civil Engineering, Tribhuvan University, Kathmandu, Nepal, 71.17% **2015-2019**

Major Coursework

Structural Dynamics Computational Techniques Theory of Structures Seismic analysis and design
Applied Mechanics Strength of Materials Design of RCC and steel Foundational Engineering

Projects and Research Works

Group project report and presentation on “Seismic Analysis and Design of a Commercial Building”

High School, Higher Secondary Education Board, Kathmandu, Nepal, 74.10 % **2013-2015**

WORKING EXPERIENCES

Civil Design Engineer, Firmworks Construction, Lalitpur, Nepal **April 2021–Present**

- Developed 3D finite analysis models for structural analysis and design of earthquake-resistant buildings, and prepared reports and drawings.
- Conducted structural site visits to assess construction progress, identify on-site challenges, and ensure the smooth execution of building projects, gaining practical insights into the real-world.
- Participated in project meetings to discuss design considerations, modifications, and project timelines.

Site Engineer, Cairo Construction, Kathmandu, Nepal **February 2020–March 2021**

- Oversaw on-site construction activities, ensuring compliance with project specifications, codes, and quality standards.
- Implemented and maintained safety protocols, conducting regular site inspections to identify and rectify potential hazards.
- Coordinated with contractors and subcontractors to ensure seamless workflow.

SKILLS

- Proficient in Structural Modeling and Analysis using **SAP2000**, **ETAB** with over 3 years of experience.
- Familiarity with **Python** and **MATLAB**, with experience in implementing algorithms for data analysis and optimization.
- Proficient in editing using **Microsoft Office** and **LaTeX**, generating high-quality reports and presentations.
- Led a team of four engineers to complete a building project within a tight deadline, demonstrating good project-leading and time management skills.
- Skilled in **Sketchup** for 3D modeling, which can be used to create realistic visualizations of engineering designs.
- Skilled in using **AutoCAD** for drafting, design, and modification of construction documents, ensuring accuracy and compliance with industry standards.

VOLUNTEER AND LEADERSHIP EXPERIENCES

- Actively participated as a member of the “**CIVIL CLUB 2017/18**” at Kantipur Engineering College, contributing to the club’s success through volunteer work, such as teaching, organizing programs and events.
- Served as the **Team Leader** for the final year project titled “Seismic Analysis and Design of a Commercial Building” at Kantipur Engineering College, overseeing the project’s planning, coordination, and execution.
- Led a team of four fellow students in conducting a survey camp, which involved planning and executing fieldwork, data collection, and analysis.
- Worked as an Organizing Committee Member for the First National Conference on “Sustainable Infrastructure Development”, held on 2-3 February 2020 in Hotel Himalaya, Pulchowk, Lalitpur

TRAINING AND CERTIFICATIONS

- Completed an online course Programming for Everybody Getting Started with Python University of Michigan, 19 hrs. approx. June 2023
- Completed an online course “Introduction to Programming with MATLAB” Vanderbilt University 35 hrs. approx. August 2023.
- Participated in a program titled Overcoming Construction Supervision Challenges USAID’s Nepal Reconstruction Engineering Services (NRES) Project August 2020
- Completed Site Engineer Training ACM consultancy, 100 hrs. approx. October 2020.
- Completed 30 hours of training on “AUTO-CAD” and “SAP 2000” Research, Training, and Consultancy Division (RTCD), Kantipur Engineering College December 2018

EVENTS AND ACHIEVEMENTS

- Participated in Civil Model competition in LITE technical exhibition held at Kantipur Engineering College with project entitled.
 - URSA (Underground Reinforced Shock Absorber and Base Isolation) February 2018
 - UTOPIA (Smart City) February 2017
- Won Silver medal in Intra College Quiz Competition organized by Kantipur Engineering College.
- Lifetime member of Nepal Engineering Council (NEC) License number: 24412 Civil “A”
- General member of Nepal Engineers Association (NEA) Membership number: 29263

REFERENCES

Dr. Surendra Bahadur Tamrakar

Professor

Lalitpur Engineering College

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Er. Sudeep Thapa

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