BIBEK REGMI

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EDUCATION

Bachelor of Engineering in Civil Engineering **June 2023**
Pokhara University, Nepal College of Information Technology (N.C.I.T), Kathmandu, Nepal
GPA: 2.76 / 4.00
Minor: Environmental Impact Assessment / Trail Suspension Bridge

RELATED EXPERIENCE

Pokhara University, Nepal College of Information Technology, Kathmandu **Sept 2021 – July 2022**
Project III — Final Year Project, Team Leader (Group NCIT_CIVIL04)

- Coordinated with a team of 4 members to carry out the project
- Conducted detailed cost estimation of the project
- Designed the road using Smart Road software
- Tested the model on a routine basis, analyzed faults, and resolved them accordingly
- Studied every research paper relevant to the project
- Reported to the supervisor weekly via email and in-person meetings
- Chaired the team in carrying out research work and completing the project

Bandan Bhagwati Nirman Sewa Pvt. Ltd. **July 2025 – Present**
Site Engineer

- Develop detailed plans, timelines, and budgets
- Decide daily work plan
- Manage labour and machinery
- Ensure construction follows drawings
- Prepare weekly and daily work schedules

Tundi Group, Kathmandu, Bagmati **May 2024 – July 2025**
Construction Project Engineer

- Developed detailed plans, timelines, and budgets
- Collaborated with architects and engineers on project designs
- Assigned tasks to subcontractors and monitored performance to ensure quality standards
- Maintained accurate project records
- Managed contracts with subcontractors and suppliers

Bodhi Holding Pvt. Ltd., Bhairahawa, Lumbini **Aug 2023 – Feb 2024**
Construction Supervisor Intern

- Conducted daily site inspections to ensure adherence to safety regulations
- Monitored construction progress, communicated updates, and identified potential problems or delays
- Assigned tasks to subcontractors and monitored performance to ensure quality standards
- Ensured materials used conformed to industry standards and provided technical guidance to workers

RESEARCH INTERESTS

- Impact on Workforce Dynamics
- Robotic Process Automation (RPA)
- Building Information Modeling (BIM)
- Risk Management
- Construction Safety Management
- Infrastructure Resilience
- Sustainable Construction and Low-Carbon Building Materials
- Life Cycle Assessment (LCA) and Embodied Carbon of Structures
- Environmental Impact Assessment (EIA) in Infrastructure Projects
- Seismic Resilience and Disaster Risk Reduction
- Data-Driven Decision-Making and Automation in Construction (RPA, Python)

PUBLICATIONS

Construction Workforce Development in Nepal: Addressing the Skills Gap (paper-based article)
DOI: 10.5281/ZENODO.13854213

VOLUNTEER EXPERIENCE

Engineers Without Borders (EWB) – Nepal **Oct 2024 – Feb 2025**
Disaster Risk Reduction Workshops

- Help create educational materials and resources that explain DRR concepts, tools, and practices
- Assist with organizing workshop logistics, such as scheduling, venue setup, and material distribution
- Provide expertise in civil engineering principles, contributing to discussions on resilient infrastructure and design

Triyog High School, Kathmandu, Bagmati **Aug 2023 – Sept 2023**
Tutor

- Assisted high school students with math coursework such as geometry, pre-calculus, and calculus
- Developed quizzes to help students understand mathematics material

Habitat for Humanity, Nepal **July 2023**
Community Development Initiatives Volunteer

- Provided engineering expertise during the construction phase, advising on best practices for materials and techniques to ensure structural integrity
- Helped coordinate project timelines, resources, and teams to ensure construction progressed efficiently and safely
- Trained local volunteers and community members in basic construction techniques and safety practices to empower them in future projects
- Facilitated discussions with community members to understand their needs and incorporate their feedback into project planning and execution

PROFESSIONAL AFFILIATIONS & ORGANIZATIONS

- Nepal Engineering Council — Licensed Engineer
- Nepal Engineering Association — Member

TECHNICAL SKILLS

Operating Systems: Windows, macOS X
Road Design Software: Smart Road
Building Analysis: E-TABS
Modeling Software: AutoCAD 3D
Programming: Python for cost estimation, schedule analysis, and data visualization
BIM or automation: Python (Revit API / pyRevit, Dynamo scripting)
Languages: Nepali (native), English (fluent), Hindi (fluent)

EXTRACURRICULAR ACTIVITIES

- YouTube Content Creator & Guitarist (2020 – Present)
- Debate Club Member (2021 – Present) — 2nd place, regional competition (2023)
- Volunteer Coordinator, Food Bank (2022 – Present) — organized weekly food distribution events, coordinating a team of 15 volunteers