

## **DRISHTANTA POUDEL**

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### **EDUCATION**

#### **Postgraduate Certificate – Construction Project Management**

Lambton College, Toronto, Canada 2025

#### **Bachelor of Engineering (BEng) – Civil Engineering**

Kathmandu University, Nepal 2020

### **RESEARCH EXPERIENCES AND ACADEMIC PROJECTS**

#### **Work Integrated Learning Project – Construction Management**

Lambton College, Toronto, Canada 2025

- Executed quantitative performance audits on active projects, focusing on the variance between baseline schedules and field execution
- Conducted detailed Quantity Take-offs and deterministic cost estimation to evaluate the sensitivity of resource allocation on total project cost
- Synthesized contract documents and technical specifications to identify constructability gaps and mitigate potential Change Order frequency
- Developed technical reports on Occupational Health and Safety compliance and risk registers, demonstrating readiness for graduate-level heuristic analysis

#### **Integrated Construction Management of a Modern Colonial Cottage | Capstone Project**

Lambton College, Toronto, Canada 2025

- Engineered Work Breakdown Structure and schedules; implemented real-time budget and schedule controls using Earned Value Management metrics
- Modeled project constraints using Critical Path Method and hierarchical Work Breakdown Structures to optimize total float and resource leveling
- Formulated a probabilistic risk management plan and procurement matrix to optimize the supply chain for specialized residential construction

#### **Comparison of Seismic Codes for Steel Structures in the Himalayan Belt & Design of a Multi-Storey Steel Building Undergraduate Thesis**

Kathmandu University, Nepal 2020

- Conducted a comparative review of seismic codes across seven Himalayan countries, assessing their impact on design coordination, constructability, and regulatory compliance in steel building projects
- Performed seismic analysis using SAP2000 v14, interpreting structural performance results to support early-stage planning and seismic risk mitigation decisions
- Completed full structural design in compliance with IS 800:2007 and IS 456:2000, integrating design outputs with practical construction sequencing considerations
- Prepared preliminary quantity take-offs and cost estimates, linking seismic design requirements with budget planning and procurement strategy

#### **Railway Infrastructure in Nepal: Prospects and Challenges | Published Research**

Civil Insight, Kathmandu University 2018

- Led feasibility studies for Nepal's 1,000+ km railway, addressing terrain, electrification, and gauge standards
- Mitigated topographic, political, and financial risks (FX and sovereign) for complex infrastructure
- Designed implementation and financing strategies for national and cross-border rail corridors
- Focused on integrating rail with industrial logistics and regional trade to drive socio-economic growth

## PROFESSIONAL EXPERIENCES

### Assistant Project Coordinator

Santulan Engineering and Environmental Consultancy Pvt. Ltd., Nepal Feb 2023 – Mar 2024

- Supported planning, scheduling, tendering, and cost tracking for 15+ infrastructure projects, including roads, bridges, buildings, and rural water supply systems
- Prepared technical reports, RFIs, and change orders, aligning field data with project schedules and budgets
- Coordinated multidisciplinary teams and documented meetings with clients, consultants, and stakeholders, emphasizing decision tracking and project performance outcomes
- Assisted in logistics and documentation workflows that improved project data accuracy and reporting efficiency by 20%

### Design Engineer

Santulan Engineering and Environmental Consultancy Pvt. Ltd., Nepal Jan 2022 – Jan 2023

- Developed and reviewed 20+ 2D/3D engineering drawings using AutoCAD and Revit for design integration
- Contributed to constructability analysis by integrating design intent with site constraints
- Performed site inspections to verify compliance with design specifications and quality standards
- Utilized MS Project, Primavera P6, and Excel for schedule development, resource planning, and estimation

### Site Engineer / Quality Control Engineer

SEW–Tundi Joint Venture, Sanjen Hydroelectric Project (42.5 MW), Nepal Dec 2020 – Dec 2021

- Led a team of 20+ individuals for the execution of an 80+ million CAD hydropower infrastructure project
- Conducted quantity takeoff, cost tracking, and progress reporting, linking field data to project schedules
- Performed laboratory and field quality tests and documented results for compliance and performance evaluation
- Prepared technical drawings and reinforcement detailing to support construction activities
- Assisted in safety planning, material logistics, procurement coordination, and stakeholder meetings
- Generated daily, weekly, and monthly progress reports and contributed to Interim Payment Certificates (IPCs)

## FREELANCE AND OTHER EXPERIENCES

### Field Engineer

Scholars Consult Pvt. Ltd., Nepal 2023

- Led a team of 5 surveyors, collaborated with local stakeholders for land use distribution and planning
- Conducted municipality meetings with local bodies to collect feedback, and produced daily minutes
- Coordinated with 3 municipalities' professionals to validate field data, ensuring 100% accuracy in the land use plan

### Part-Time IELTS-PTE Tutor

EduLand Educational Consultancy Services, Nepal 2023

- Delivered focused instruction in IELTS and PTE Academic modules
- Assisted 50+ students with exam strategies, mock tests, and performance improvement techniques
- Provided individualized feedback to support score improvement and test readiness

### Water Supply Design and Planning Tutor

Dream Height Engineering and Consultancy Pvt. Ltd. 2022

- Introduction to Water Supply Survey and Engineering, Water Quality, and Treatment Systems
- Introduction and application of various software used in water supply design, such as QGIS, ArcGIS, SW Rural V3, EPANET, and SW Urban V3

### Field Engineer

Aastha Scientific Research Service Pvt. Ltd., Nepal 2022

- Led GPS-assisted site and community assessments for 15+ water supply projects, enabling feasibility analysis and design
- Performed comprehensive water quality monitoring from multiple sources for project planning and safety

- Collaborated with Nepal's Ministry of Water Resources and local stakeholders to integrate field data into official proposals and cost estimates
- Managed a database of 100+ critical data points, ensuring rigorous accuracy and consistency in all reporting

### **TECHNICAL AND RESEARCH SKILLS**

- **Construction & Engineering Software:** AutoCAD, AutoCAD Civil 3D, Revit, SAP2000, ETABS
- **Project Controls & Data Analysis:** Primavera P6, Microsoft Project, Microsoft Excel, Cost Estimation, Quantity Takeoff, Scheduling, Budget Tracking
- **GIS & Infrastructure Modeling:** ArcGIS, QGIS, Google Earth, EPANET, SW\_DTM
- **Construction Science Competencies:** BIM-based coordination, constructability analysis, contract interpretation, quality control systems, risk assessment, safety planning, technical documentation
- **Research & Professional Skills:** Technical writing, analytical reporting, stakeholder coordination, problem-solving, leadership, time management

### **CERTIFICATIONS AND PROFESSIONAL AFFILIATIONS**

- Verified International Academic Qualifications, World Education Services (2025)
- Student Member, Project Management Institute (PMI) (2025)
- Student Member, American Society of Civil Engineers (ASCE) (2025)
- Worker Health and Safety Awareness (WHMIS), Canada (2024)
- Member of Chitwan Round Table (2023)
- Registered Civil Engineer – Nepal Engineering Council (2021)
- Treasurer at Kathmandu University Civil Engineering Committee (2019)
- Winner of KU Intra-College Cricket Tournament (2018)
- Winner of KU Emerging Cup Football Tournament (2016)
- Best Student Award, Small Heaven School (2014)

### **PROFESSIONAL DEVELOPMENT AND TRAININGS**

- Parallel Learning Initiative (2024)  
Engaged concurrently with a curated series of advanced courses on Coursera to build interdisciplinary expertise in sustainable construction, materials science, and environmental systems:
  - Urban Nature: Connecting Cities, Sustainability and Innovation – Lund University
  - Greening the Economy: Sustainable Cities – Lund University
  - Transportation, Sustainable Buildings, and Green Construction – Johns Hopkins University
  - Environmental Hazards and Global Public Health – University of Michigan
  - Global Environmental Management – Technical University of Denmark (DTU)
  - Introduction to Materials Science – Arizona State University
  - The Construction Management Industry and Profession – University of Maryland
  - Renewable Energy and Green Building Entrepreneurship – Duke University
  - Sustainable Urban Water Systems – Politecnico Milano
- 10 Days Vipassana Meditation, Chitwan Vipassana Center, Nepal (2023)
- Study of KUshadevi River Stretch, Nepal (2019)
- 14 Days AutoCAD Training, Kathmandu University, Nepal (2018)
- 2 Weeks Survey Camp, Mars Nepal Engineering Survey Camp Pvt. Ltd., Nepal (2018)
- Geology Field Visit to Malekhu, Nepal (2018)