

RAJU KHADKA, EIT
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PROFESSIONAL SUMMARY

Dedicated Environmental and Water Resources Engineer with 10+ years of diverse experience in environmental compliance, stormwater infrastructure, hydroelectric project execution, and sustainable drainage. Adept at environmental planning, regulatory liaison, inspection, and hydrologic/hydraulic modeling. Offers field and technical experience aligned with federal and provincial environmental regulations, and expertise in both Canadian and international infrastructure projects.

CORE COMPETENCIES

Environmental Compliance • Stormwater Management • Environmental Monitoring • Hydrologic/Hydraulic Modeling • Construction Oversight • GIS & Civil 3D • Regulatory Liaison (MECP, CVC, TRCA) • LID Design & Inspection • Hydroelectric Infrastructure • Risk Assessment • Technical Reporting

PROFESSIONAL EXPERIENCE

- Integrated Water Management Coordinator | Credit Valley Conservation Authority | Mississauga, ON | Nov 2021 – Present
 - Led environmental reviews and compliance audits for SWM projects, collaborating with municipalities and stakeholders.
 - Inspected LID infrastructure; identified maintenance needs and design flaws for Peel Region stormwater systems.
 - Conducted Smart Roof modeling using PCSWMM; assessed infrastructure impacts and presented cost-saving outcomes.
 - Contributed to public education and regulatory reporting for environmental systems and credits.
- Project Engineer – Smart Blue Roof Deployment | Toronto Metropolitan University & CVC | 2020 – 2021
 - Modeled hydrologic impacts of blue roof installations under climate change scenarios.
 - Ensured CSA compliance and oversaw installation, inspection, and maintenance protocols for rooftop systems.
 - Liaised with research and municipal partners to present performance findings and program recommendations.
- Design Engineer | Hydro Solutions Pvt. Ltd. | Kathmandu, Nepal | Oct 2011 – Nov 2013
 - Designed civil and hydraulic structures including stormwater systems, canals, roads, and weirs using AutoCAD, Civil 3D.
 - Conducted topographic surveys, GIS watershed analysis, and flood forecasting using empirical

models.

- Developed sediment transport simulations and collaborated with stakeholders for hydropower feasibility and regulatory approvals.

- Project Engineer | Modi Energy Ltd. | Kathmandu, Nepal | Aug 2016 – Sep 2018

- Managed environmental aspects of hydropower construction; oversaw sediment control, slope stability, and intake design.

- Coordinated with regulatory bodies for MoE, Forestry, and Water approvals.

- Reported environmental impacts and led construction QA/QC in tunnel and intake works under challenging terrain.

EDUCATION

Master of Civil Engineering | Toronto Metropolitan University | Toronto, ON | 2019 – 2020

Bachelor of Civil Engineering | Tribhuvan University | Nepal | 2010

(*WES-evaluated as equivalent to Canadian 4-Year Bachelor's Degree*)

CERTIFICATIONS & SOFTWARE

P.Eng Application Submitted • Valid G License Pending • PCSWMM • Visual OTTHYMO • HEC-RAS • AutoCAD Civil 3D • ArcGIS • MS Office • Bluebeam Revu • Ontario EPA, OHSA, Fisheries Act Knowledge