

ANIM RAJBAHAK SHRESTHA

Contact No: +977 9861445308

Email Address: anim.shrest@gmail.com

Permanent Address: Maru Ganeshthan -19 Kathmandu Metropolitan, Nepal



Summary

A highly motivated Civil Engineering graduate with an interest in hydraulics and geotechnical engineering.

Education and Qualifications

Kathmandu University (2018-2023)

- Bachelor of Engineering in Civil Engineering (Specialization in Hydropower)
- CGPA: 3.69
- **Thesis:** Potential Study of Manahari Storage Multipurpose Hydroelectric Project

St Xavier's College, Maitighar (2016-18)

- School Leaving Certificate Examination
- Science stream (English, Nepali, Physics, Chemistry, Math, Biology)

Work Experience

Continuing and Professional Education Center, Kathmandu University, Engineer, 10 July 2023-Present

- Preparation of architectural and structure drawing for different school
- Preparation of STEAM-based projects for different schools

Sanima Middle Tamor Hydropower Ltd, Civil Engineer Intern, 9 December 2022-9 January 2023

- Internship as a part of the 8th Semester Course
- Supervision of construction works at tunnels of HRT, Sedimentation basin (Quantity analysis, formwork placement, layout, bar bending and quality check)
- Quality control and lab work sieve analysis of backfill material and shotcrete mix

Site Supervisor for a Residential House, January 2022-November 2022

- Supervised the complete construction of 3 storied residential house at Sitapaila

Professional Affiliation

Nepal Engineering Council (NEC)

- Registered Engineer, Civil Engineering, Category A, Registration no: 78845

Conference Participation

First International Conference on Space Utilization & Research in Underground Structures, 5-6 May 2022

- Topic: "Effect of Damage Zone Around an Excavation due to Blasting"

Activities

Participated in KU Hackfest22, 5-7 August 2022

- Created an application called AResto for Solving Classical Problem by Digitalizing Restaurant

Participated in Bootcamp on Startup & Incubation, 29 April- 1 May 2022

- Facilitated by Kathmandu University- Directorate of Research, Development & Innovation

Participated at Himalayan Hydro Expo 2022, 2-4 April 2022

- Explanation of KU Research Tunnel

Other Experience

Chief Editor for Civil Insight- Vol V, launched on 22 February 2023

Graphics designer for Civil Insight- Vol IV, launched on 5 January 2022

3D Modelling of KU Tunnel, 2021

Graphics designer for First International Conference on Space Utilization & Research in Underground Structures

Head of Networking and Partnership for Hult Prize at Kathmandu University 2021/22

Executive Member & IT head of Eco Club, 2016-2018

Academic Project

Potential Study of Manahari Storage Multipurpose Hydroelectric Project

- Topographical analysis using SRTM 1 Arc Sec DEM and Photogrammetry
- Hydrological Analysis using primary and secondary data (1964-2010AD) from DHM
- Reservoir Planning
- Hydraulic Design of Dam, energy dissipator, intake, penstock and powerhouse

Flow analysis in Settling Basin

- Studied the variation of streamlines in a settling basin using Computational Fluid Dynamics
- Used ANSYS student version

Working model of Pumped Hydro

- Physical model explaining the working process of Pumped Hydro
- Made using DC motor, pipes, drum

Working model of Tuned Mass Damper

- Physical model explaining the working process of Tuned Mass Damper

Skills

- | | | |
|---------------------|-----------------|-----------------------|
| • Python | • SAP2000/ETABS | • AutoCAD |
| • Blender | • QGIS | • 2-D Modeling in RS2 |
| • Microsoft Package | • OpenFOAM | |

Languages

Proficient in

- | | |
|----------|-----------|
| • Nepali | • English |
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Intermediate in

- | | |
|---------|---------------|
| • Hindi | • Nepal Bhasa |
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Basic in

- German

Typing

- English

Reference

Shyam Sundar Khadka, PhD

Head and Associate Professor

Department of Civil Engineering

Kathmandu University

sskhadka@ku.edu.np