September 2024

ANIM RAJBAHAK SHRESTHA

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Permanent Address: Maru Ganeshthan -19 Kathmandu Metropolitan, Nepal

EDUCATION

Bachelor of Engineering in Civil Engineering (Specialization in Hydropower) 2018-2023
Kathmandu University
Capstone Project: "Potential Study of Manahari Storage Multipurpose Hydroelectric Project."
CGPA: 3.69
Relevant Coursework: Engineering Geology, Soil and Rock Mechanics, Remote Sensing and GIS, Strength of Materials, Foundation Engineering, Structured and Object-Oriented Programming, Tunneling and Underground Structure

High School 2016-2018
St. Xavier's College

WORK EXPERIENCE

ICE Nepal Pvt. Ltd. August 2024- Present
- Structure Detailing of residential buildings
- Site Supervision of residential buildings

Continuing and Professional Education Center, Kathmandu University June 2023- July 2024
- Design of Inclusive Infrastructure
- Preparation of STEAM-based projects

Civil Engineer Intern, Sanima Middle Tamor Hydropower Ltd December 2022-January 2023
- Supervision of construction works at tunnels of HRT and 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, Freelance January 2022-November 2022
- Supervised the complete construction of 3 storied residential building at Kathmandu

CONFERENCE PRESENTATION

Accepted: "Fostering STEAM Approach through Project-Based Exhibition: A Case Study", STAR Global Conference 12-14 December 2024

"Effect of Damage Zone Around an Excavation due to Blasting" 5-6 May 2022
First International Conference on Space Utilization & Research in Underground Structures

ACADEMIC PROJECT

Potential Study of Manahari Storage Multipurpose Hydroelectric Project 2022

- 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
- Sedimentation Calculation

Flow analysis in Settling Basin 2021

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

Working model of Pumped Hydro 2019

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

Working model of Tuned Mass Damper 2019

- Physical model explaining the working process of Tuned Mass Damper
- Structure was made using thin rectangular iron pieces to restrict the motion in one direction

ACTIVITIES

Hackathon, KU Hackfest22 August 2022

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

Bootcamp on Startup & Incubation May 2022

- Created business plan alongside the market study and financial calculations

Himalayan Hydro Expo 2022 April 2022

- Demonstation of underconstruction KU Research Tunnel along with scaled physical model

VOLUNTEER EXPERIENCE

Chief Editor, Civil Insight- Vol V 2023

- Chief Editor for the Annual Magazine published by Department of Civil Engineering, Kathmandu University which publishes journal articles, interviews.

Graphics designer, Civil Insight- Vol IV 2022

- Graphics designer for the Annual Magazine published by Department of Civil Engineering, Kathmandu University which publishes journal articles, interviews.

Graphics designer, SURUng-I 2022

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

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

- Formed partnerships with diverse organizations and institutions to organize the event and raise necessary funds

Animator, 3D Modelling of KU Tunnel 2021

- Created a 3D model animation of the underconstruction KU Research Tunnel

Executive Member, Eco Club, St. Xaviers College 2016-2018

- Organised various events like tree taging, cleanliness program, dramas, etc.

PROFESSIONAL REGISTRATION

Registered Engineer, Nepal Engineering Council (NEC), Registration no: 78845

SKILLS

- Python
- SAP2000/ETABS
- AutoCAD
- Blender
- QGIS
- 2-D Modeling in RS2
- Microsoft Package
- OpenFOAM (CFD)

LANGUAGES

Proficient in

- Nepali (Native)
- English (Speaking, Writing, Typing)

Intermediate in

- Hindi (Speaking)
- Nepal Bhasa (Speaking)

Basic in

- German (Speaking)

REFERENCE

Assoc. Prof. Dr. Shyam Sundar Khadka
Associate Dean,
School of Engineering,
Kathmandu University
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