Abhishek Mandal

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Summary

Recent Civil Engineering graduate with a strong interest in sustainable infrastructure, hydropower development, and project implementation. Possess sound knowledge of GIS analysis, hydrological studies, surveying, and technical report preparation through academic and practical projects. Familiar with ArcGIS/QGIS, AutoCAD, hydrological modeling, and infrastructure analysis. Eager to contribute to field engineering and infrastructure projects while continuously developing technical and professional skills.

Practical Experience

Final year Project

A case study of Pumped Storage Hydropower Project: Syarpu Lake and Bheri River

- Conducted Pre-feasibility study of a 509 MW Pumped Storage Hydropower Project
- Performed hydrological & GIS analysis using ArcGIS/QGIS (carried out catchment delineation, reservoir storage analysis,& Elevation-area-volume)
- Assisted in Preliminary design of hydropower components
- Performed cost estimation and financial analysis including B/C ratio and NPV assessment following JICA guidelines

Practical projects and Technical Exposure

- Conducted topographic, bridge site, and road alignment surveys
- Prepared maps, longitudinal/cross-sections, and survey computations from field data
- Stream flow analysis using current meter and area velocity method

Students Club Involvement

- Civil Engineering Students Society (CESS)
- Engineers Without Borders (EWB)

Event Coordination Experience

- Managed event planning and coordinated the successful execution of the event “Aarambha”
- Managed the VR event at the Orbit Engineering Expo
- Conducted Workshops under the EWB club initiative

Trainings & workshops

- GIS Trainings Programs
- Popsicle Bridge Workshop

Education

Bachelor of Civil Engineering

Advanced College of Engineering and Management

2078- 2083

High School

Triton International college

2075-2077

SEE

Mother Teresa Public School

Skills

- HEC - HMS (Basic Hydrological Modeling)
- QGIS/ArcGIS (Basic GIS Mapping & Spatial analysis)
- AutoCAD (2D Drafting and Drawing)
- MS Word, Excel, PowerPoint
- SW/DTM Survey Data Processing
- Terrain and Contour Data Handling
- Quantity Estimation and Cost Estimation
- Drawing interpretation and Site Coordination
- C programming
- Basic Hydrology Concepts & Technical Report Preparation
- Teamwork & Communication
- Problem Solving

Research Interests

- Clean Energy and Hydropower Development
- Sustainable Infrastructure
- Water Resource Management
- GIS and Spatial Analysis
- Climate- Resilient Development
- Infrastructure project planning and implementation

Languages

- English
- Nepali
- Maithili
- Hindi