

SHRAWAN LAMSAL

- **Nationality:** Nepalese
- **DOB:** 08/06/1999
- **Gender:** Male

CONTACT

Bhimad Municipality, Nepal
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LANGUAGE

- English- Listening, Reading and Speaking (Fluent, C1)
- Nepali- Native Language

EDUCATION

2023 – 2025
Master's degree, Rock and Tunnel Engineering, (86.80%)
Institute of Engineering (IOE), Pashchimanchal Campus
Tribhuvan University (TU), Nepal
Thesis Title
"Determination of TBM Performance in Nepal Himalaya using Machine Learning Techniques".

2017 – 2022
Bachelor's degree, Civil Engineering, (72.50%)
Institute of Engineering (IOE), Pashchimanchal Campus
Tribhuvan University (TU), Nepal
Final Year Project
"Impact of Wastewater Disposal on the Water Quality of Major Lakes in Pokhara, Nepal".

2015 – 2017
National Education Board of Nepal, Science Stream (81.50%)
S.O.S. Hermann Gmeiner Secondary School
Kaski, Nepal

WORK EXPERIENCE

Deputy Project Manager, Fulltime **NOV 2025 - PRESENT**
BP Construction Private Limited
Bharatpur, Chitwan

- Responsible for serving as lead technical authority overseeing both engineering and managerial functions for the 36.52 MW Brahmayani Hydroelectric Project, Sindhupalchowk, Nepal.
- Responsible for supervising project planning, execution, and performance, while coordinating multidisciplinary teams, ensuring quality control, and supporting strategic decision-making.

Research Supervisor, Parttime **JUN 2025 - JULY 2026**
Institute of Engineering (IOE), Pashchimanchal Campus, Tribhuvan University (TU), Nepal

- Responsible for supervising a master's thesis work in Rock and Tunnel Engineering, mentoring data analysis, literature review, and ML applications.

Managing Director **DEC 2023 – JUN 2025**
Dells Engineering and Construction, Pokhara 17, Kaski, Nepal

- Responsible for management of the full project lifecycle - planning, budgeting, execution, close-out - across construction and consulting portfolios.
- Responsible for the project estimation/costing, feasibility analysis, Detailed Project Report preparation, and negotiations for government and private clients.

Civil Engineer, Fulltime **SEP 2022 – DEC 2023**

Gandaki Construction, Pokhara, Kaski, Nepal

- Responsible for delivering the engineering designs and executions.
- Prepared the technical documents like rate analysis, project schedules, online bidding of contract and interim payment certificates.
- Responsible for Quality Control and Quality Assurance of the Civil Projects.

Engineering Intern, Parttime **JUN 2021 – SEP 2022**

Saraswati Nirman Sewa, Syangja, Nepal

- Responsible for supervised of construction activities, quality inspections, and technical drawings to ensure compliance with design and safety standards.
- Performed surveying and setting out for road and bridge works, including alignment, levels, and construction control, to ensure accurate execution of the project.

SKILLS

Rock Engineering & Numerical Modelling: Rocscience Suite (RS2, RS3, Slide2, UnWedge, Dips)
Hydropower Engineering: Hydropower Project Layout and Planning, Underground Caverns and Tunnel Planning
Geographic Information Systems (GIS): ArcGIS, QGIS
Hydrologic & Hydraulic Modelling: HEC-RAS
Programming: Python
Machine Learning & Data Science: Scikit-learn, TensorFlow/Keras, Pandas, NumPy, Matplotlib, XGBoost, Data Preprocessing, Feature Engineering, Hyperparameter Tuning, Cross-Validation, Supervised Machine Learning (Regression & Classification)
CAD & Engineering Software: Autodesk Civil 3D, AutoCAD
Project Planning & Management: Microsoft Project, Primavera P6

TRAINING AND CERTIFICATIONS

- Participated in conference on *Knowledge Sharing and Conference on Tunnelling,* Nepal Tunnelling Association and ITACET. January 18-19, 2024, Kathmandu.
- Participated in symposium on *Nepal Tunnelling Symposium 2024*, Nepal Tunnelling Association and Nepal Society for Rock Mechanics. September 27-28, 2024, Kathmandu.
- Attended a Workshop on *Research Training – 2024*, Nepal Research and Collaboration Center, June 29-September 15.

PUBLICATIONS

- Panthi, K. K., Lamsal, S., Katuwal, T. B., Basnet, C. B., & Shilpakar, P. (2025). ML Techniques for Rock Mass Classification in TBM tunneling: SMDM Project, Nepal. ISRM International Symposium – EUROCK 2025, Trondheim, Norway.
- Lamsal, S., Panthi, K. K. & Katuwal, T. B. (2025). Rock Mass Classification in TBM Tunneling using Artificial Neural Network Techniques: A Case Study from Siwalik Region of Nepal.

REFERENCES

Dr. Tek Bahadur Katuwal Assistant Professor IOE, Pashchimanchal Campus, TU tekkatuwal@wrc.edu.np +977 9856038353	**Dr. Sailesh Adhikari** Program Coordinator, M.Sc. in Rock and Tunnel Engineering IOE, Pashchimanchal Campus, TU sailesh@wrc.edu.np +977 9849161070	**Dr. Chhatra Bahadur Basnet** Visiting Associate Professor IOE, Pashchimanchal Campus, TU chhatrabasnet@gmail.com +977 9841497162

Shrawan Lamsal
10th July, 2026