

# Er. PRAKASH GHARTI MAGAR

Geomatics Engineer

[prakashgm.geo@gmail.com](mailto:prakashgm.geo@gmail.com)

Sunil-Smriti-8, Aresh, Rolpa, Nepal

(+977) 9865551419

## PROFILE

Proactive Geomatics Engineer with proven track record of identifying issues and resolving capacity in the field of spatial science. A person with extremely passionate, optimistic and enthusiastic about research and new technology especially in the field of spatial technology like Surveying, Land Use Planning, Mapping, Cartography, Photogrammetry, GIS, Remote Sensing, GNSS and in programming such as HTML, CSS, JavaScript, Python, PostGIS, WebGIS, GeoAI, Spatial Programming and having a determination to achieve own curiosity.

## EMPLOYMENT RECORD

- ❖ GIS Associate, Youth Innovation Lab (1<sup>st</sup> November 2023 – Present)
  - ✚ *Cartography, spatial analysis and mapping*
  - ✚ *OSM mapping and validation*
  - ✚ *Disaster risk visualization, GIS based proposal development*
  - ✚ *Map Book Creation and WebGIS*
- ❖ GIS Intern, Youth Innovation Lab (24<sup>th</sup> July 2023 – 31<sup>st</sup> October 2023)
  - ✚ *Georeferencing and hazard digitization (NYCAGG)*
  - ✚ *Administrative, Land Use, Critical and Utility Infrastructure, and Risk map design.*
  - ✚ *RSLUP data integration in Bipad Portal (USAID's Tayar Nepal)*

## EDUCATION

- ❖ Bachelors in Geomatics Engineering, Tribhuvan University, Institute of Engineering (IOE), Pashchimanchal Campus (November 2018 – May 2023) → 72.74%
  - ✚ *Final Thesis: WebGIS Enabled Utility Management and Metric House Numbering System: A Case Study of Annapurna Rural Municipality, Ward No. 2, Kaski, Nepal*
  - ✚ *Surveying and Cadastre*
  - ✚ *Cartography and Geoinformation Visualization*
  - ✚ *Photogrammetry, GIS, Remote Sensing*
  - ✚ *Geodesy*
  - ✚ *Programming (C, C++, Python)*

## PROJECTS

- ❖ Involved Projects in Youth Innovation Lab
  - ✚ *Nepali Yuwa in Climate Action and Green Growth (NYCAGG) → Funded by European Union*
  - ✚ *Tayar Nepal Phase-III → Funded by USAID*
- ❖ 4th Order Control Point Transfer in Pokhara Metropolitan.
- ❖ 7 Days Hydropower Survey in Pame, Pokhara Metropolitan.
- ❖ 7 Days Cadastral Survey of Pokhara Metropolitan, Ward no. 24, Kaskikot.
- ❖ 7 Days GPS Survey on Ambulance Service Center in Pokhara Metropolitan City using Kobo Collect and Handheld GPS.

- ❖ 7 Days Road Survey of Kalikhola, Lamachaur, Pokhara, Nepal.
- ❖ 7 Days Topographic Survey of Pashchimanchal Campus, Lamachaur, Pokhara, Nepal.

## EXPERIENCES

- ❖ Surveyor, Aagam Designers, Builders and Suppliers Pvt. Ltd.
  - ✚ *The As-Built Survey of Doba Hospital (Annapurna Rural Municipality, Ward No. 2, Doba, Myagdi, Nepal) was carried out.*
- ❖ Land Use Zoning and Classification Technician, Shree Engineering Consultancy Pvt. Ltd.
  - ✚ *Land Use Zoning and Classification was carried out based on Land Use Regulation 2079 (Chandrakot Rural Municipality, Gulmi, Nepal)*
- ❖ OpenStreetMap Trainer, Department of Geomatics Engineering, Pashchimanchal Campus.
- ❖ President, Mid-Western Pokhara Contact Society, Pashchimanchal Campus.
- ❖ Geomatics Engineering Faculty Representative, Club of Technical Students (CoTS), Pashchimanchal Campus.
- ❖ Vice-President, Nepal Magar Students Union, Pashchimanchal Campus.
- ❖ Union Member, Nepal Students Union, Pashchimanchal Campus.

## TRAININGS/CERTIFICATIONS

- ❖ Unlocking the Power of Deep Learning Applications Using ArcGIS-2023
  - ✚ *ESRI*
- ❖ GNSS Training-2023
  - ✚ *Center for Space Science and Geomatics Studies (WRC), Center for Spatial Information Science (Tokyo), International Committee on GNSS and UNOOSA*
- ❖ Spatial Data Science: The New Frontier in Analytics-2022
  - ✚ *ESRI*
- ❖ Training On DGPS And Terrestrial LiDAR Scanner-2022
  - ✚ *Geo3D Modelling and Pashchimanchal Campus*
- ❖ GNSS Training-2022
  - ✚ *Center for Space Science and Geomatics Studies(WRC), Center for Spatial Information Science(Tokyo), International Committee on GNSS and UNOOSA*
- ❖ Cartography-2021
  - ✚ *ESRI*
- ❖ Full-Stack Web Development-2021
  - ✚ *Happy Club, Pashchimanchal Campus*
- ❖ UAV Data Processing with GCP-2021
  - ✚ *Geomatics Engineering Students Association of Nepal (GESAN)*
- ❖ Exploring OSM Data with QGIS-2021
  - ✚ *Geomatics Engineering Students Association of Nepal (GESAN)*
- ❖ WebGIS Training-2020
  - ✚ *Geomatics Engineering Students Association of Nepal (GESAN)*
- ❖ WebGIS and Web Mapping with LeafLet and GeoDjango-2020
  - ✚ *Geomatics Engineering Students Association of Nepal (GESAN)*

- ❖ OpenStreetMap Training-2018
  - ✚ *Geomatics Engineering Students Association of Nepal (GESAN)*

## SKILLS

- ❖ Digital Skills
  - ✚ *Mapping, Image Processing, Analysis and Map Design (ArcGIS, ArcGIS Pro, QGIS, Google Earth Pro, Earth Map, SNAP, Pix4DMapper, AgiSoft Metashape, WebODM, RTKLib)*
  - ✚ *Documentation and Presentation (Microsoft Products, Google Products, Canva, Figma)*
  - ✚ *Programming (HTML, CSS, JavaScript, C, C++, Python, SQL)*
  - ✚ *Cloud Computing and Open-Source Mapping (Google Earth Engine, OSM Mapping)*
- ❖ Instrument Handling Skills
  - ✚ *Chain, Tape, Compass, Level, Hand GPS, Theodolite, DGPS, Total Station, Drone*
- ❖ Personal Skills
  - ✚ *Leadership (President-MPCS, Union Member-NSU, Vice-President-NMSU)*
  - ✚ *Fast Learner*
  - ✚ *Team Player*
- ❖ Language
  - ✚ *Nepali (Native)*
  - ✚ *Hindi (Professional)*
  - ✚ *English (Professional)*

## REFERENCES

- ❖ Assoc. Prof. Dr. Krishna Prasad Bhandari
  - ✚ *Director, Center for Space Science and Geomatics Studies (CSSGS), Pashchimanchal Campus, Institute of Engineering (IOE), Tribhuvan University.*
  - ✚ *Associate Professor, Department of Geomatics Engineering, Pashchimanchal Campus, Institute of Engineering (IOE), Tribhuvan University.*
  - ✚ *Advisor, ICWG V/IV - Spatial Information Science Education (WORKING GROUPS of ISPRS COMMISSION V)*
- ❖ Pradip Khatiwada
  - ✚ *Executive Director, Youth Innovation Lab (Non-Profit Organization), Baluwatar-4, Bhakta Marg, Kathmandu, Nepal.*