

SHARMA, SAROJ KUMAR MR.

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Educational Qualifications:

- 2007-2011** **Bachelor of Engineering in the field of Geomatics Engineering, KATHMANDU UNIVERSITY Dhulikhel, Kavre, Nepal**
(Result: Distinction; CGPA 3.63; Equivalence : 87.05%)
Majors: Spatial Analysis and Elevation Models, Hydrological simulation and Modeling, Web GIS, Advanced Remote Sensing, Python Programming
Project: GIS based flood simulation modeling, hydrological analysis and Landuse Mapping of Ratu River sub-watershed.

Summary of Relevant Professional Skills and Experiences

Over 4 years of experience as Founder Member, Managing Director and Geomatics engineer of private consulting company which provides multidisciplinary services specially on geospatial, engineering and IT sectors.

About 2 years of experience as GIS Analyst professional consultant, active in the field of spatial database preparation, analysis, cartography and modeling being associated with International institutions of the USA and Europe.

Over 2 years of experience as part time consultant for providing professional trainings in GIS, Remote Sensing and Surveying in various Government/ non-government institutions, NGOs and INGOS.

Extensive work experience with international experts and multi-disciplinary teams, with wide spectrum of stakeholders including Governments, NGOs, INGOS and private sector.

Professional Involvements

November, 2011 – Present

Managing Director and Geomatics Engineer, GEOM iTech Private Limited, Kathmandu, Nepal

Key Responsibilities as Managing Director

Take lead role in conceiving, developing, resourcing and implementing company business strategies in accordance with vision, mission and objectives. More specifically,

- Work for business development, track potential projects, decide priority projects for bidding, collaborate with national/international companies for joint venture/association consortium,

coordinate/finalize expertise, support/prepare bidding documents, prepare proposal, perform financial analysis and prepare financial proposal, coordinate with the client as needed etc.

- Allocate resource and define job-responsibilities to staffs, design line of communication within company, with associated companies and clients.
- Analyze project progress and apply learning to ongoing program development, provide solutions to deadlocks and difficulties faced during project execution
- Coordinate with team leader and experts to assess the output/ progress of the project to assure quality control and completeness meeting the requirements of clients.
- Overall Management of the company including financial, human resource and technical management
- Supervise ongoing projects and also work as Manager/Coordinator/GIS analyst/GIS expert for different individual projects of the company as needed.

Notable Achievements:

- Established company as founder member that is now one of the best spatial service provider consulting company in Nepal and successful to win about 30 small-medium sized projects including two fairly large international competition within short span of time.
- Worked as thematic expert mainly in GIS/RS and surveying in more than 15 projects.
- Managed multidisciplinary projects mainly GIS, IT, Engineering which involves overall management of data acquisition, data analysis, data presentation or visualization of geospatial data including field surveying.

Technical Involvements:

In addition to the management of the company, I have accomplished following responsibilities:

July, 2015 to Present

(Consulting Service, Part Time, 1.5 Man Month)

Nepal Water Restoration Management Consultant, US Forest Service, United States

Key Responsibilities: To provide technical analysis using GIS, freshwater biodiversity sampling and or site specific knowledge of environmental and hydrological conditions of Nepal.

- Prepare/update spatial database required for the project
- Perform GIS analysis and data analysis
- Work as a cartographer

April, 2015 to June 2015

(Consulting Service, Part Time 1.5 Man Month)

South East Asia SilvaCarbon Technical Consultant, US Forest Service, United States

Key Responsibilities: Support SilvaCarbon Partner Countries in ongoing efforts to develop forest carbon measuring, verifying and reporting system programs using GIS and spatial technologies.

- Support the development of Measurement, Reporting and Verification system of forest carbon.
- Prepare/update spatial database required for the project
- Perform GIS analysis, model building and data analysis
- Work as a cartographer

January 2015 to June 2015

(Part Time, 4 Man Month)

Project Coordinator and GIS expert,

Project: Develop national database of basic attributes of all forest management regimes and develop national REDD+ information system or registry

Consultant: Agriconsulting SPA Italy JV Prompt Infosolutions P Ltd Nepal,

Client: Ministry of Forests and Soil Conservation, Government of Nepal

Donor Agency: World Bank.

Key Responsibilities:

- Overall coordination with experts, client, stakeholders, regional office, donor agency and consortium firm
- Perform requirement analysis and design of the system
- Prepare/update GIS database of base layers and of management regimes including community forest, leasehold forest, religious forest, private forest, protection forest, collaborative forest, wildlife and national parks etc.
- Work as web-GIS developer
- Design/implement surveying technology to collect spatial database
- Prepare maps and work as cartographer
- Design /conduct capacity building trainings
- Facilitate for server installation in Ministry

**October, 2014 to till date
(Part Time, 3.5 Man Month)**

GIS Expert,

Project: Establishment of GIS Based License Management System of Hydropower Projects, Contract No 10/DoED/GBLMS/2070/71

Consultant: Desire Engineering Consultancy JV ADMC Engineering JV Prompt Infosolutions

Client: Department of Electricity Development, Government of Nepal

Donor Agency: Government of Nepal

Key Responsibilities:

- Procure Software, computer hardware and necessary GIS digital data set and maps
- Collect and update the geo-spatial data base like river & road network, Landuse, Utilities, DEM, geological map etc required for hydropower project planning, design, operations and its license management
- Design the data consistency methodology to integrate database from various institutions
- Develop GIS data layers for hydropower project and electricity utilities with detail information required for license management.
- Customize GIS data base for license management of hydropower projects and its electricity utilities
- Design web-portal to publish/disseminate license information with map, figures charts and tables created from GBLMS
- Conduct trainings for capacity buildings of DoED professionals for efficient use of GBLMS including data base update
- Conduct workshops and make presentations for sharing knowledge and experiences of GIS/GBLMS data base among the stakeholders

**June 2014 to October 2014
(Part time: 4 Man Month)**

Project Coordinator,

Project: Supply and Installation of Integrated Training Management System of Council of Technical Education and Vocational Training (CTEVT), Government of Nepal

Consultant: Softech Infosys JV Prompt Infosolutions P Ltd Nepal,
Client: Council of Technical Education and Vocational Training (CTEVT), Government of Nepal
Donor Agency: World Bank.

Key Responsibilities:

- Overall Project Coordination between World Bank, CTEVT and Technical Team
- Overall Project Management including technical, administrative and financial aspects
- Management and monitoring of Technical system development team
- Monitor Quality control/ Quality Assurance plan and procedures
- Overall project design including Web-GIS component
- Provide Capacity building/Knowledge transfer training
- Development of project initiation, resource allocation, system requirement analysis and design, system implementation plan etc.
- Development of various reports, manuals etc

June 2013 to May 2014
(Part time: 7 Man Month)

GIS Expert/Office Manager,

Project: Development of a Measurement, Reporting and Verification (MRV) System for Emissions and Removals, REDD-Forest Climate change cell, Department of Forest, Government of Nepal

Consultant: Agriconsulting spa, Italy

Client: REDD Implementation Center, Government of Nepal

Donor Agency: World Bank.

Key Responsibilities

- GIS and Remote Sensing analysis, preparation of GIS database, producing maps etc. for developing Measurement, Report and Verification system of Forest emissions
- GIS modelling for WISDOM (Woodfuel Integrated Supply/Demand Overview mapping) model
- Developing and converting database system open source GIS/database framework including QGIS, Postgresql and Postgis.
- Assist IT team in the development of Web based GIS portal in Linux platform,
- Assist team leader for Administrative and financial management
- Provide Capacity building training in GIS, database, WISDOM model and IT platform for client.
- Installation of the GIS-IT System in client environment

April 2013 to October 2013
(Part time: 7 Man Month)

Assistant Team Leader

Project: GIS Mapping of Climate Vulnerable Areas and Glacier Lakes of Annapurna- Manaslu Landscape

Consultant: Prompt Infosolutions Pvt Ltd, Nepal

Client: National Trust for Nature Conservation, Government of Nepal

Donor Agency: USAID, Hario Ban, WWF

Key Responsibilities:

- Prepare Glacier Lakes inventory of Annapurna-Manaslu landscape by performing satellite image analysis using GIS/RS tools

- Perform GIS analysis to identify potentially dangerous lakes by performing time series analysis and analyzing biophysical parameters
 - Perform watershed delineation and prioritization in the basis of climatic vulnerability
 - Perform field verification of major lakes
 - Data analysis and report preparation
 - Conduct capacity building training for updating inventory.
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January 2013 to January 2014,

(Part time: 5 Man Month)

Team Leader/Geomatics Engineer

Project: GIS assisted Parcenary mapping for identification and Delineation of Land Parcels of Mahakali irrigation system

Consultant: Prompt InfoSolutions Pvt. Ltd.

Client: Irrigation Department, IWRMP, Jawalakhel

Donor Agency: World Bank

Key Responsibilities:

- GPS surveying for Delineation of canal command area, irrigation block, administrative boundaries etc.
 - Perform GIS analysis overlaying with cadastral sheets
 - Design appropriate feature naming and coding of irrigation system attributes in GIS environment.
 - Design verification and validation system mainly checking and updating of canal points via Google Earth.
 - Perform topological Validation of digitized features (parcel validation, construction validation, canal validation etc)
 - Work as cartographer
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March, 2013 to April 2013,

(Part time: 1 Man Month)

Team Leader, Geomatics Engineer

Project: Rectification and verification of Parcenary mapping of Kankai Irrigation System Using GIS and GPS Navigation Techniques.

Client: Irrigation and Water Resource Management Project, Irrigation Department, Jawalakhel

Consultant: Prompt InfoSolutions Pvt. Ltd.

Donor Agency: World Bank

Key responsibilities:

- Desk Study of the existing database and determine the pin point the area for rectification
- Performing GPS surveying and data processing
- Perform GIS analysis and prepare maps
- Prepare final reports.

**April 2013 to Sept 2013,
(Part time: 4 Man Month)**

Geomatics Engineer (Surveyor)

Project: Detailed Survey of Hydropower Component of Rani Jamara Kularia Irrigation Project

Client: Irrigation Department “Rani JamaraKulariya Irrigation Project” Jawalakhel

Consultant: Prompt InfoSolutionsPvt. Ltd.

Donor Agency: Government of Nepal

Key Responsibilities:

- Perform traverse, control survey and detail topographic surveying using total station and GPS
- GPS data processing
- Perform survey data analysis and prepare database/maps
- Prepare survey report

**June 2013-August 2013
(Part time: 2 Man Month)**

Geomatics Engineer

Project: GIS assisted Parcellary mapping for identification and Delineation of Land Parcels of Kankai irrigation system of Jhapa District.

Client: Irrigation Department, IWRMP, Jawalakhel

Consultant: Prompt Infosolutions Pvt. Ltd

Donor Agency: World Bank

Key Responsibilities:

- GPS surveying for Delineation of canal command area, irrigation block, administrative boundaries etc.
- Perform GIS analysis overlaying with cadastral sheets
- Design appropriate feature naming and coding of irrigation system attributes in GIS environment.
- Design verification and validation system mainly checking and updating of canal points via Google Earth.
- Perform topological Validation of digitized features (parcel validation, construction validation, canal validation etc)
- Work as cartographer

**Jan 2012-Sept 2012
(Part time: 6 Man Month)**

GIS Analyst

Project:Preparation of GIS database and maps using GIS and Remote Sensing technology for developmental plan of Sagarmatha corridor (Khotang, Solukhumbu, Okhaldhunga, Udayapur, Siraha, Shaptari, and Bhojpur)

Client: Khotang Development Forum, Sunakothi, Lalitpur

Consultant:Prompt Infosolutions Pvt. Ltd

Key Responsibilities:

- Prepare GIS database of various layers including DEM, landuse, utilities, transportation, stream, and other resource maps.
- Perform hydrological analysis for identification of potential vulnerable areas
- Perform suitability analysis for agriculture potentiality of project areas
- Perform analysis for potential transportation map

Nov-2011 – March 2012

(Part time: 4 Man Month)

(Geomatics Engineer)

Project: Preparation of plan, Design and conduct setting out work for land pooling project at Janagal of Kavre district.

Client: Bijay Engineering Consultancy, Dillibazar, Kathmandu

Consultant: Prompt Infosolutions Pvt. Ltd

Key Responsibilities:

- Conduct traverse, control survey and detail topographic survey
- Survey data analysis and map preparation
- Support Team Leader for preparation of Urban planning

April 2011-August 2011

(Part Time: 3 Man Month)

Surveyor

Project: Transmission line Survey,design and preparation of GIS Database in different VDCs (Sankhu,Bukhel,Devichaur,Malta and Bhattedanda) of Southern Lalitpur

Client: Phulchoki Energy Pvt. Ltd, Chapagaun-6,Lalitpur

Consultant: Prompt Infosolutions Pvt. Ltd

Key Responsibilities:

- Perform traverse and detail strip survey for transmission line
- Perform survey data analysis and preparation of GIS maps

2010 September to Nov 2011

Founder Member, GIS Assistant, Part Time

Prompt Infosolutions Pvt.Ltd

Key Responsibilities:

- Office establishment and business development
- Hiring of the supporting staff for the office
- Assist in Management of the company, manage logistics, perform technical consultation with clients, facilitate as per needed.
- Worked as an assistant for the tender documents preparation.

Besides, I have conducted following consulting work:

2013-2014: GIS Training 4 Groups) DOLIDAR
 2012: GIS Training (5 Groups) Himalayan IT
 2012: GIS Training (3 Groups) Microtech Computer
 2013: VDC Profile and Resource Mapping, Prompt Infosolutions
 2013: Lecturer, GIS and Remote Sensing BE CIVIL, (0.5 MM) (Purwancal Campus, Dharan)
 2012: GIS based analysis for Watershed Prioritization

Other Involvements:

2011 – to till Date

(3 hrs / week) :

Meditation Trainer, Aarnish Meditation Centre, Janagal, Kavre, Nepal.

Professional Association

- Member in Nepal Engineering Council, Membership No. 79 Geomatics “A” category
- Former President, Geomatics Engineering Society, Kathmandu University

Language Skills

Language	Reading	Speaking	Writing
Nepali	Excellent	Excellent	Excellent
English	Excellent	Good	Excellent
Hindi	Good	Good	Good

Software

GIS/RS: ArcGIS, IDRISI, ERDAS imagine, QGIS, postgresSQL, geoserver, postgis, AUTOCAD Land development etc.

Word Processing: Microsoft office, open office;

MS Project

Website: www.geomitech.com

Office E-mail: promptinfos@gmail.com

Certification:

I certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience.

Authorized Signature

(Saroj Kumar Sharma) November 2015