

SWATI SINGH

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CAREER OBJECTIVES:

To work in an organization which has a dynamic environment. Putting my best effort to assure the needs of the organization, while developing research skills and striving for excellence.

KEY SKILLS:

- Vector & Raster data editing, creating, modifying geographic data from a variety of sources such as text files, hard copy maps, GPS data, Satellite Imagery;
- Geo-referencing; Projection & Coordinate System;
- Cartographic Design;
- Conversions and Topology; Spatial Analysis. Geocoding, Enhancements;
- Sub-setting; Vegetation Indices; Use of Filters and PCA; Supervised and Unsupervised Classifications;
- GPS Survey and Plotting
- Ability to use MS Office software (Word, Excel, Power Point);

EDUCATION:

- One Year PG Diploma in Remote Sensing & GIS with 'A' Grade from Department of Geography Banaras Hindu University (2010-2011).
- MA (Geography) with 66.3% from V.B.S. Purvanchal University (2009)
- B.A with 56% from V.B.S. Purvanchal University (2007)
- Intermediate with 66% from U.P. Board (2004)
- High School with 54% from U.P. Board (2002)

WORKSHOP, TRAINING, & SPECIAL ACHIEVEMENT:

- Three Months Edusat Distance Learning programme on **"Basic of RS, GIS and GPS"**.
- 4 Week NPTEL Online Certificate on **"Digital Image Processing of Remote Sensing Data"**.
- 6 Weeks ESRI Training on **"Going Places with Spatial Analysis"**.

SOFTWARE KNOWLEDGE:

- ArcGIS Version 10.5
- Erdas Imagine 9.1
- MapInfo Pro
- AutoCad (Map)
- QGIS
- Google Earth
- MsWord; Excel; Power Point

EDUCATIONAL PROJECT WORK:

Project Title: "Urban Land Use Mapping in a part of Varanasi City"

Main Features of Project: Objective of the project was to study of present status of land resources, water resources, agricultural patterns, natural vegetation pattern, using satellite data and field survey.

Activity performed: Field survey, extract data, geo-referencing, digitization and prepare thematic maps namely, land use, built-up area, source of water resources, occupational structure etc. Using satellite imagery on ArcGIS platform, obtain the exact area estimation of different land use features present within the data.

PROFESSIONAL PROJECT WORK:

1. Name of the Project: JICA Assisted Delhi Water Supply Improvement Project in Chandrawal WTP Command Area (JICA Loan No. ID-P225), Delhi Jal Board

Client: Delhi Jal Board

Position Held: GIS Analyst

Organization: STUP Consultant Pvt. Ltd.

Year: November 2016 to present

Overview: The scope of the project is to improvement of Water Treatment Plant, installation of SCADA, new transmission mains and distribution pipelines as well as replacement of old one, non-revenue water reduction, creation of DMA, replacement of pipes within DMA and the components of GIS mapping, customer meter management, institutional reorganization, human resource development and creation of Project Monitoring Unit.

Activities Performed: Layout Map Preparation as per project requirement; GIS maps superimposed on topographic survey details; Calculation of Pipeline lengths & Road Restoration using GIS software; Assisting on GIS related project 'Strengthening of GIS Mapping and Asset Management Plan'; Worked on BOQ related to GIS project; Technical evaluation of bidders; Involve in other project related activities.

2. Name of the Project: Cadastral & Land Use Mapping

Client: Rajasthan Land Revenue

Position Held: worked as a Freelancer (GIS)

Organization: EMap Analysis & Planning Software Pvt. Ltd., Ghaziabad, Uttar Pradesh

Year: Aug 2016 – Nov 2016

Overview: Objective of the project is to vectorized scanned cadastral maps with information like ownership, area owned, the type of land use & the geographical location.

Activities Performed: Geo-referencing & Vectorization of Cadastral maps & Quality Checking; Geocoding; Land Use Map Preparation.

3. Name of the Project: Rural Water Supply Scheme, Bihar

Client: Public Health Engineering Department, Bihar

Position Held: GIS- Deputy Manager (GIS Assistant)

Organization: Greencindia Consulting Pvt. Ltd., Vaishali, Ghaziabad, Uttar Pradesh

Year: Nov 2015 – Jul 2016

Overview: The aim of the project is to mapping of water sources, identification of contaminated as well as safe water sources, identify water quality affected districts (like Arsenic, Fluoride & Iron) & provide safe drinking water sources.

Activities Performed: Point location demarcation of Hand pumps of Bihar using Survey Data, Topo-sheet & satellite data, Database compilation with Hand pump locations, analysis the maps with water parameters & prepare thematic map for the project of ***Water Quality Testing & Mapping of Parameters in Water Sources of Bihar PHED (Public Health Engineering Department)***; Land use & Land Cover map & forest cover map preparation for Mining lease area & Construction Projects for Environment Clearance; PFR (Pre-Feasibility Report) preparation for mining projects; Power Point presentation preparation for environment clearance; Involved in other project related activities.

4. Name of the Project: Preparation of Digital Map of Planning Area with Land Use in Jabalpur, Madhya Pradesh

Client: State Institute for Town Planning, Jabalpur, Madhya Pradesh

Position Held: GIS Consultant

Organization: 6Degreez Consultant Pvt. Ltd., Raipur, Chhattisgarh

Year: Mar 2015 – Oct 2015

Overview: The objective of the project is to develop GIS database and deploy on customized web based application for distribution of data to support their decision making processes.

Activities Performed: Geo-referencing, Vectorization & Superimposition of existing and proposed Land Use/Land Cover map and attached Database of land records for SITOP (State Institute for Town Planning), Jabalpur; Forest Cover Mapping & Monitoring and Change Detection assessment using satellite data, Map composition, Spatial Analysis using GIS software for Chhattisgarh Forest Department; Storage Capacity Assessment of Proposed Dams using GIS technology and SRTM data for Water Resources Department, Govt. of Chhattisgarh.

5. Name of the Project: Space Based Information Support for Decentralized Planning (SIS-DP), Uttar Pradesh

Client: Indian Space Research Organization (ISRO)

Position Held: Project Scientist

Organization: Remote Sensing Application Center, Lucknow, Uttar Pradesh

Year: Dec 2012 – Mar 2015

Overview: The geo-database, products and services prepare under this project are expected to be disseminated through Bhuvan Geo portal, an easy to use Geo portal developed for database visualization, data analytics etc. for the benefit of Gram Panchayat member and other stake holders.

Activities Performed: Interpretation of High Resolution Ortho-rectified Cartosat1 and LISS IV merged satellite data and the creation of GIS layers of Infrastructure & Land use /Land

cover, Drainage Pattern map on 1:10,000 scale and thereafter field work for SIS-DP (Space Based Information Support for Decentralized Planning) Project.

6. Name of the assignment/job or Project: Navigation & Geospatial Analytics

Client: MapMyIndia

Position Held: GIS Executive

Organization: MapMyIndia (C.E. Infosys Pvt. Ltd.), Okhla Phase III, Delhi

Year: Jan 2012 – Nov 2012

Overview: MapMyIndia maps are professionally curated and continuously updated Indian road network & street level details. It covers house level data and point of interests and produce navigational maps & devices.

Activities Performed: POI (Point of Interest) updating for Delhi NCR, Land Base map creation using satellite & field survey data; Work in various GIS projects and mapping /geocoding data; Field verification of geocoded locations using GPS.

7. Name of the assignment/job or Project: Navigation & Geospatial Analytics

Client: MapMyIndia

Position Held: GIS Trainee

Organization: MapMyIndia (C.E. Infosys Pvt. Ltd.), Okhla Phase III, Delhi

Year: Jun 2011 – Dec 2011

Overview: MapMyIndia maps are professionally curated and continuously updated Indian road network & street level details. It covers house level data and point of interests and produce navigational maps & devices.

Activities Performed: Road vectorization and updating using satellite images & Categorization for navigation projects for various cities of India; Land use /Land cover& drainage map preparation.

Core Strengths:

- ▶ Ability to understand and grasp things quickly and efficiently.
- ▶ Ability to perform meticulously and quick result independently.
- ▶ Highly adaptable to all situation.
- ▶ Very good team player.