MD Ashraf Hussain

Specialization GIS

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Objective:

To build career in growing organization, where I can get the opportunities to prove my abilities by accepting challenges, fulfilling the organizational goal and climb the career ladder through continuous learning and commitment.

Professional Summary and Experience : 5 Years

- Worked with **Dogus Insaat Ve Tic. A.S**, as a **GIS Specialist** from December 2014 to April 2019 (Doha, Qatar)

- Worked with **Matrix-geo Solution** Pvt. Ltd**.** as a **GIS Executive** from November 2011 to December 2014 (Delhi, India)

ProfessionalWork Experience:

- Experience with designing, integration and implementation of Arc GIS.
- Analyzes and implements Vector and Raster data from the GIS and related software.
- Create maps and graphs, using GIS and related software.
- Gather, analyze, and integrate spatial data and determine how best the information can be displayed using GIS.
- Compile geographic data from a variety of sources including censuses, field observation, satellite imagery, aerial photographs, and existing maps.
- Analyze spatial data for geographic statistics to incorporate into documents and reports.
- Doing the QC & QA for the final report before sending it to the clients.
- Topo sheets imagery and satellite imagery Etc. geo-referencing, Clipping and Mosaicking.
- Vector data Rubber sheeting and special adjustment according to input and specification.
- Combination of several spatial datasets (points, lines, or polygons) creates a new output vector dataset.
- Raster-to-vector and vector to Raster translation
- Generate contour and create DEM, TIN etc. from 3D vector data.
- 3D Visualization.
- Vector data and images conversion to other format according to client requirement.
- Coordinating the acquisition of new spatial data and supervising the integration of these data into the organization's GIS.
- Developing and managing quality control procedures.
- Performing spatial analyses and creating information products from the GIS and related software and subsystems.
- Cartographic design and high quality map production.

- Download, convert and upload GIS data available from internal and external sources to make them usable.
- Perform GIS data quality control, including reviewing data for completeness and accuracy; identifying and correcting errors or omissions in the data.

GIS: Skills, knowledge, and abilities:

- Geography - Knowledge of various methods for describing the location and distribution of land, sea, and air masses including their physical locations, relationships, and characteristics.
- Communication, Written, Oral and Cartographic - The ability to convey GIS/spatial information to non-GIS/technical people.

Analytical Skills –

- The ability to solve problems using the GIS suite of tools.
- Information Gathering - Knowing how to find information and identify essential information, and validate the information.
- Information Ordering - The ability to correctly follow a given rule or set of rules in order to arrange things or actions in a certain order.

Projects and Work Done:

- **Land Base Mapping and classification**

  Client: Tata Teli Service Limited (TTSL)
  Project Description: this was the land bas project, digitizing all layers which is showing on the map (Buildings, Roads, footpath, divider, Nala, Park, Green Area, Open Area, utilities, water bodies etc.). Geocoding the building no and this building number linked the all information which has provided by the survey team.
  Role: Digitization, Geocoding, Data cleaning, Topology, QC.

- **Delhi State Spatial Data Infrastructure (DSSDI)**

  Client: Department of Information Technology, Government of NCT of Delhi
  Project Description: Entire area of Delhi (except the restricted area) has been covered under the project. The dataset of the DSSDI project includes 356 geo-spatial layers (above the ground, on the ground and below the ground) with the attribute data of about 29 departments / agencies. The project was intended to achieve high accuracy GPS surveys for entire Delhi, establishing control network including monuments, photogrammetric capture (from aerial photographs and in 3D) of roads, buildings, parks, water bodies and all over ground features, generation of base map on 1:2000 scale and an Ortho photo; surveys for underground utilities using Ground Probing Radars; creation of Land Information System (LIS) and Urban Spatial Information System (USIS), setting-up of 2 Control Centers and 10 Monitoring Centers with IP Cameras and a DSSDI Portal for line departments of Government of Delhi, and generation of 3D pictorial data base as well as capacity building for line departments of GNCTD. The LIS was conceived for up to date cadastral information. The USIS was conceived for the spatial data/information requirements of urban planning for routine functions of the line departments of Delhi.
  The underground utilities comprising water, sewer, telephones, power lines etc. have been mapped for the first time using State-of-Art Technology. The availability of

Underground utilities in digital form would enable the concerned line departments to undertake preventive maintenance programmes as well as locate the fault in the underground utility with precision.
Developed countries have been using Geo-Spatial Technology for long for enhancing transparency in the functioning of Government Departments.
The common database will be made available to various Government Departments for Design, Planning, Execution and Monitoring of all infrastructure projects. This would help improve efficiency and productivity of all city services by reducing conflict of interest and cost of duplication of work.
Underground utilities in the capital had been mapped afresh using State-of-Art Technology of Ground Probing Radars, said Delhi Chief Secretary Shri. Rakesh Mehta. He further added that the decades-old Cadastral Maps had been digitized, Geo-referenced and a Land Information System had been operationalized.
Information Technology, said that for the first time in India an entire city had been mapped on a large scale (1:2000) using aerial photography to produce an accurate base map, capture and overlay all over ground and underground utilities, create a 3-D city model and undertake property survey of all dwelling units.
Role: Digitization, Geocoding,Data Cleaning, Data integration,Topology, Data joining, Attribution and QC/QA.

- **Railway Corridor Mapping**

  Client: RITES the Infrastructure People a Government of India Enterprises
  Project Description: As a part of its work in India Railway, in this project digitizing ground feature like Road, Building, Water body, Railway Track, Tress and all over ground features along with NS, EW, SW Rail track within 10km from railway track, Geo-Referencing topo sheets by using satellite imagery and collect all information from this topo sheets and google earth, Create digital elevation model (DEM)from DTM vector data and export to XYZ grid pint, Generated contour from digital elevation model (DEM).
  Role: Digitization, Data Cleaning, Attribution, Geo-Referencing, Contour generation, DEM Creation, Elevation XYZ grid point creation and QC/QA.

- **GISAdministrativeBoundaries OfIndianstates**
  Client:WorldBank
  Description: As a part of its work in India, the spatial data project aims to produce shape file of the boundaries of all levels of administrative unit of selected states. Project mainly comprises of Geo-referencing and Digitization, Codingof Vector data**.**
  Role: Production, Workingon client feedback, ManagingVendors, QC/QA.

- **RCD (BiharRoad Construction Department)**
  Client: Central Road Research Institute (**CRRI**)
  Project Description: To capture all NH, SH, MDR (Major District Road),Railway, Bridge & Water Features of Bihar State & Excel Data Joining of all features by using ArcGIS10.1. Updating Road Condition, Bridge Condition & Other Details of every 200 meter of captured Road.KML given by CRRI (Central Road Research Institute)**.**
  Role: Digitization, Geo-referencing, Spatial Adjustment, Data Cleaning and Data Linking.

- **Water Pipe Line corridor mapping and 3D visualization**
  Client:WAPCOS Limited (A Government of India undertaking)
  Project Description: The aim of project was to locate of water pipe line in suitable location, digitizing the water pipe line and corridor of water pipe line with 3D modeling And create digital elevation model (DEM), Create 3D visualization views using by Arc scene and google earth and make a video of this 3D visualization.
  Role: Digitization, Data Cleaning, Attribution, DEM Creation, 3D visualization.

- **Revamping Of Chambal Canal System**
  Client: Water and Power Consultancy Services Limited
  Project Description: Project is about to generate canal irrigation system,land use, land cover map by digitizing the canal and khasra from cadastral map, Geo-referencing cartosat images and topo sheets according to control point and collect all information from topo sheets and Google earth, Linked khasra details and canal details in attribute. These khasra numbers were linked with voter list.
  Role: Digitization, Geocoding, Geo-referencing, Rubber sheeting,Spatial Adjustment, Data Cleaning, Data integration,Topology, Data joining, Hyperlinking, Attribution, QC/QA and prepare final delivery Data.

- **ClassificationofCadastral Maps**
  Client:Infrastructure Leasing & Financial Services Limited (IL&FS)
  Project Description: The aim of project was to generate cadastral map in digital form by Scanning maps and then working on them, in this we have to trace each and every part of map i.e. Khasra Boundary, Village Boundary, River, Canal, Symbols, Legends, Nali, Khasra Number, Village Number, Line settlement of Rajasthan.
  Role: Digitization,Attribution, Data linking, Data cleaning,Topology, QC/QA and prepare final delivery Data.

- **Al Rayyan Road Construction and Upgrade**
  Client:ASHGHAL (Public Work Authority)
  Project Description: The project includes the construction and development of Al Rayyan Road from west of the Sports roundabout to west of Khaled bin Abdullah Al Attiyah roundabout.
  The project is an integral part of Ashgal's Express-way Program that aims to create a long term, sustainable road network.
  It is part of a strategic plan to modernize transportation for Greater Doha; it will serve future development and population growth, it will serve utility relocation and overall plans for the future transportation network, it will solve the problem of the traffic flow, it will eliminate waiting times and provide free flowing traffic by having grade separated interchanges, It meets the basic existing and future needs for the Greater Doha area.
  We have two layer of each and every feature 1st one is existing which is available in actual ground location and 2nd one is proposed which feature is relocate in suitable ground location (Street light cable and pole, transformer, MV cable, LV cable, HV cable, Telephone cable, Potable water line, storm water line, foul sewer line and manhole, Buildings, Wall and fences etc.). Geo-reference images as per old Al-Rayyan data which has provided by client, survey team visit the site and take a coordinate and setting out of each and every feature by using GPS, Level machine and total station. After that we digitize layer by layer according to the survey data and put all details in attribute and link the other data in shape file, if any future comes in our demolition area then we relocate of this feature, so that we construct safely, then once again we send to survey

team to identify relocation area, they take coordinate and other details from ground and they mark relocation area as well in ground surface, after that we prepare inspection request (IR) include all details and send it to client, some people comes from client side to check the relocation area and check all details, if they approve then We send this approved IR to construction department, so that they will proceed construction work.

Role: Digitization,Attribution, Data linking, Data cleaning,Topology, track project progressing, coordinating to other department, Layout Creation,QC/QA.

Career:

Remote Sensing and Geographical Information System (GIS), Experience in satellite image processing, digitizing, Geo-referencing & 3D Analyst. Have hands on practice of GIS tools and technologies like ArcMap/ArcGIS, AutoCad, Auto Cad Map,Global Mapper, Google Earth, BentleyMicro Stationand Map info.

Education Qualification:

- 10th from Bihar school examination board from Patna
- 12th from Bihar Intermediate Education Council board from Patna
- Bachelor degree in Geography from Jai Narain Vyas University, Jodhpur Rajasthan

- Diploma of **Draughtsman with Auto Cad** from ONYX CAD.COM Info. Sys. Pvt. Ltd. New Delhi.

- PG diploma in **Remote Sensing and GIS** form Himalayan University, Arunachal Pradesh

Softwareand Tools Skills:

ArcMap, Arc Scene, Auto CAD, Auto CAD Map, Google Earth, Bentley Micro Station, Global Mapper, Map info.

TechnicalSkills:

Satellite Navigation and Tracking Systems, Geographic Information System, Remote Sensing, GIS

Co-curricular Activities:

- Won 1st prize in painting competition.

Personal Details:

DateofBirth	: 05th Dec1990
Nationality	: Indian
Marital Status	: Unmarried
Languages Known	:English,Hindi and Urdu
Present Address	: Near Okhla Vihar metro station, Okhla, New Delhi, India