

Bikramjit Singh *Senior Geospatial Application Engineer*

📍 New Delhi, India

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🌐 Bikramjit SIngh

Experienced GIS & Remote Sensing Professional with **9+ years** of hands-on expertise in geospatial applications, drone mapping, photogrammetry, and client delivery. Proven track record of executing high-impact geospatial projects across India and Africa for **government, defense, and infrastructure clients**. Skilled in database integration, web GIS development, and cross-functional team coordination.

🧠 Software Skills

- **GIS Platforms:** ArcGIS Pro, QGIS, ArcMap, Global Mapper, Skyline Globe Server, Terra Explorer Pro
- **Remote Sensing & Analysis:** ERDAS Imagine, Google Earth Pro
- **CAD:** AutoCAD
- **3D & Visualization:** Skyline Globe Server, Terra Explorer Pro
- **Survey Equipment:** DGPS, ETS, Drone Systems
- **Spatial Databases:** PostgreSQL with PostGIS, MS Access
- **Soft Skills:** Client Coordination, Project Management, Team Leadership, Training & Development
- **Drone & Photogrammetry:** Agisoft Metashape, PIX4D, Photomesh, DJI Go Pro
- **Web GIS & Development:** GeoServer, OpenLayers, basic web development support for live client portals

📁 Work Experience

Senior Geospatial Application Engineer, RSI Softech India Pvt. Ltd.

01/2021 – Present
New Delhi

- **Led 3+ GIS & remote sensing projects** for organizations like DDA, Haryana Govt., and Indian Defense etc
- Spearheaded **GIS mapping, drone data processing**, and CAD-to-GIS conversion of legacy layouts.
- Integrated GIS solutions with **PostgreSQL/PostGIS** databases for spatial analysis and data management.
- Deployed and managed **GeoServer** and **OpenLayers** for serving dynamic **web maps** and **live client portal**.
- **Training:** Providing installation and training of 3D and digital photogrammetry to Indian armed forces and Govt agencies.
- Ensuring Project implementation and delivery as per scope of work.
- Assisted in web GIS development and contributed to successfully launching client-facing portals.
- Delivered technical training on **3D terrain modeling and photogrammetry** to defense agencies and police officers in India and **government departments in Uganda**.
- Managed team of engineers for **project planning, client reporting**, and on-site technical deployments.
- Executed **drone-based land mapping** covering over **13,000 acres**, generating orthophotos, 3D models, and LiDAR-derived data.
- Designed and delivered software **POCs and demos** to showcase advanced GIS capabilities.
- Ensured project delivery aligned with technical scope, timelines, and client KPIs.
- Supported **DGPS/ETS surveying** and quality assurance processes.

GEOSPATIAL APPLICATION ENGINEER, RSI SOFTECH INDIA PVT LTD

04/2016 – 2021

New Delhi

- **Data Analysis:** Analyzing the GIS and Remote Sensing data using GIS Software and Excel techniques to make it user friendly.
- **Geo-processing and GIS Mapping:** Preprocessing of Imagery, GIS mapping of surveyed data. CAD to GIS conversion of old layout plans. Quality Check of GIS based prepared data. Preparation of Master maps and Layout plans for DDA and Haryana Govt of Industrial Dept.
- **Project Coordinator:** Client report preparation and work presentation. Client site work coordination and technical support to clients.
- Team handling (software support engineers and application developers).
- Creation of GEO database in GIS domain and exporting it to MS-ACCESS format.
- **Drone data processing (Ortho and 3D):** Created 3D map rendering of project site along with point clouds.
- LiDAR data processing with Drone data for 3D.
- Designing training programs and undertaking workshops for staff for staffs and Industry domains.
- Built, Operated and maintained large scale drones for photography and mapping surveyed , mapped and cataloged 13000 acres of land using drone systems.
- Land Surveying , Created GIS Map, Building Inspection.
- Work closely with external vendors & partners even with govt clients to develop and deploy complex GIS solutions & infrastructure
- Work closely with technical operations, business analysts and regional/divisional operations teams to drive implementation/adoption of GIS solutions.
- Experience in Electronics Total Station(ETS) Survey
- Using DGPS Survey for Land Survey etc.
- Basic Knowledge of No Objection Certificate Application Software (NOCAS) for airport paths

Awards

Appreciation Letter, SSP,Dima Hasao Distt: Haflong, Assam

06/08/2019

- Recognized for training police officers (including gazetted officials) on 3D terrain mapping for operational planning (2019)

Courses

Web GIS development, Udemy Online

12/2021

Getting started with GIS, Esri

12/2019

Cartography, Esri

05/2019
New Delhi

Going Places with Spatial Analysis, Esri

04/2019
New Delhi

Education

B.Tech, Electronics and Communication Engineering, Punjab Technical University

2012 – 2015
Punjab

Diploma, Electronics and communication Engineering, Pujnab School Technical Board

2009 – 2012
Punjab

Skills

Site Surveillance • Geographic Mapping Data Collection • Planning and Coordination • Responsible • Organization and Time Management • Good Listening • Team Leader • Ability to leverage available tools to solve task • Ability to work in a team environment • Excellent inter-personnel skills • Able to perform duties without immediate supervision • Electronics Total Station(ETS) • DGPS Survey

Languages

English • Hindi • Punjabi

Declaration

I declare that all above information is true to the best of my knowledge

Bikramjit Singh
New Delhi