

GURUDATTA K. N.

GEOSPATIAL LEADER | AI ADOPTION EXPERT | 20+ YEARS

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PROFESSIONAL SUMMARY

Geospatial leader with 20+ years of experience in LiDAR analytics, AI-driven workflow optimization, and enterprise operations. Proven track record scaling geospatial delivery organizations (25+ engineers, 100+ vendor resources) and executing large-scale infrastructure projects across North America, Europe, Asia, and South America. Expertise in production AI adoption, geospatial analytics, project management, and delivering measurable business outcomes. Master's in Geographic Information Science; pursuing Executive Diploma in Machine Learning & AI from IIIT-Bangalore. IEEE Senior Member.

CORE COMPETENCIES

Leadership & Operations Program & Project Management | Team Leadership (25+ engineers) | Vendor Management (100+ resources) | Stakeholder Engagement | Operations Governance | Workflow Optimization

Technology & Analytics Production AI Adoption & Governance | Geospatial Analytics | LiDAR Data Processing | Workflow Automation | Python Programming | Data Quality Frameworks

Domain Expertise Airborne LiDAR (ALS) | Mobile Terrestrial LiDAR (MTLS) | Digital Terrain Modeling | GIS Solutions | Utility Infrastructure Analytics

KEY ACHIEVEMENTS

- Executed AI tool adoption in live production environment, achieving **~30% throughput improvement** while maintaining quality benchmarks
- Built and scaled distributed geospatial delivery center managing **25+ in-house engineers and 100+ vendor resources**
- Co-founded and bootstrapped Aaron GeoSpatial Designs, scaling operations to deliver 25,000+ sq.km of geospatial projects internationally
- Managed **19,000+ km** of utility corridor classification for Pedernales Electric Cooperative with rigorous quality standards
- Processed **250,000+ sq.km** of Airborne LiDAR across Europe, Eastern Asia, Australia, and South America
- Improved delivery timelines by **20-30%** through workflow optimization and standardized operating practices
- Elevated to **IEEE Senior Member** (achieved by only 8% of IEEE members), reflecting extensive documented achievements
- Published in **IEEE Geoscience and Remote Sensing Magazine** (September 2024) for organizing InGARSS-2023 conference

PROFESSIONAL EXPERIENCE

Consultant, Market & Solution Development | HALG Technologies, Bengaluru

2026–Present

- Leading market and solution development for analytics-driven geospatial technology across infrastructure and enterprise domains
- Driving business development through partner identification, ecosystem collaboration, and opportunity qualification across India and international markets
- Defining product/service concepts, pilot frameworks, and commercialization pathways for analytics-enabled solutions

Consultant, Strategic Operations | AI GeoIntelligence Corporation, Bengaluru

2024–2025

- Delivered live customer project for North American client covering 3,500 sq.km Digital Terrain Model classification in production environment
- Evaluated and integrated AI classification tools (Flai.ai) into live delivery with rigorous QC validation framework
- Benchmarked AI-assisted outputs vs. manual workflows, demonstrating ~30% throughput improvement while maintaining quality standards
- Pursued formal upskilling in Machine Learning & AI through IIIT Bangalore alongside geospatial expertise
- Provided leadership decision support on AI adoption, delivery efficiency, cycle time, and investment implications

Production Manager | VeriDaaS Pvt. Ltd., Bengaluru

2023–2024

- Built and scaled India delivery operations supporting North American utility geospatial analytics programs
- Led 25+ in-house engineers and 100+ vendor resources across analytics, quality control, and delivery
- Implemented governance and capacity planning that reduced delivery cycle times by ~15%
- Pedernales Electric Cooperative (PECI-2023): Coordinated classification of 19,000+ km utility corridors in Texas, supporting critical infrastructure reliability and worker safety
- St. Tammany Parish Mosquito Abatement: Classified 2,274 sq.km Geiger-mode LiDAR for precision terrain modeling using semi-automated and manual procedures

Business Development Manager | C.E. Info Systems Ltd. (MapmyIndia), Bengaluru

July 2022–January 2023

- Provided geospatial pre-sales support and technical documentation for government tender projects
- GIS Mapping of Crime Zones (Safe City Project, Chennai): Implemented comprehensive GIS solution at Police Commissioner's office with geotagged crime data integration and personnel training
- One Map Goa GIS Portal: Co-developed web/mobile platform for land record digitization and urban planning with Goa Electronics Limited

Technical Director & Managing Partner | Aaron Geospatial Designs LLP, Bengaluru

June 2016–January 2022

- Co-founded and bootstrapped Aaron GeoSpatial Designs, scaling operations from startup to delivering 25,000+ sq.km of geospatial projects across Europe and South America
- Led lean team of 6 engineers through R&D, training, and capacity-building initiatives

Project Manager | Geokno India (GMR Group), Bengaluru

May 2014–June 2015

- Coordinated 1,000 km Mobile LiDAR mapping across South and Central India
- Managed terrestrial LiDAR projects including Statue of Unity mapping
- Established vendor management and data processing procedures

Project Manager, LiDAR Operations | Egis-GeoPlan, Bengaluru

September 2004–April 2014 (9.5 years)

- Managed Airborne LiDAR classification across ~200,000 sq.km (Europe, Eastern Asia, Australia, South America)
- Handled ~30,000 sq.km LiDAR calibration and ~20,000 miles orthophoto projects
- Led team of 60 LiDAR professionals and progressed to manager roles, improving timelines by 20-30%
- Notable projects: Cartographic Map Generation for Germany (50,000 sq.km), Nile River LiDAR Campaign (12,000 sq.km), European Digitization (36,000 sq.km), BD Parcellaire France (100,000 sq.km)

EDUCATION & CREDENTIALS

- **PGP in Machine Learning & Artificial Intelligence** | International Institute of Information Technology, Bangalore (2026–Ongoing)
- **Graduate Certificate in Public Policy (Technology & Policy)** | Takshashila Institute, Bangalore (2025)
- **Master of Science in Geographic Information Science & Systems** | University of Salzburg, Austria (2015–2017)
- **Master of Science in Geo-Informatics** | Sikkim Manipal University, India (2004–2006)
- **Post Graduate Diploma in Geographic Information System** | Centre for Information Science and Technology, University of Mysore (2003–2004)
- **Bachelor's Degree in Civil Engineering** | BMS College of Engineering, Visveswaraya Technological University, Bangalore (1998–2002)

TECHNICAL SKILLS & TOOLS

GIS & Geospatial ArcGIS 10.2 | QGIS | MicroStation | TerraSolid | LiDAR Data Processing

Programming & AI Python (automation & machine learning) | AI-assisted classification tools (Flai.ai)

Languages English (fluent) | Kannada (fluent) | Hindi (working knowledge)

PROFESSIONAL RECOGNITION & AFFILIATIONS

- IEEE Senior Member (Member ID: 92830154) – Geoscience and Remote Sensing Society (GRSS)
- IEEE GRSS Bangalore Section Secretary (2021–2023); Executive Committee Member (2024–Present)
- Published in IEEE Geoscience and Remote Sensing Magazine, Vol. 12, No. 3, September 2024 (DOI: 10.1109/MGRS.2024.3437174)
- Key Organizing Committee Member for InGARSS-2023 International Conference; Chaired Finance & Sponsorship Committees
- Delivered lectures on LiDAR technology, GIS, and professional development at leading institutions including BMS College of Engineering and M.P. Birla Institute of Management