

# SANTOSH MERUGU

Senior GIS Engineer cum Consultant  
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## OBJECTIVE

To spearhead the integration of cutting-edge GIS solutions, driving data-driven decision-making and propelling Organization towards a future of optimized operations, enhanced sustainability, and equitable development. My proven ability to lead diverse teams and deliver impactful projects will be instrumental in achieving these goals.

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## PROFESSIONAL SUMMERY

A highly skilled and results-oriented Senior GIS Engineer cum Consultant with 14 years of experience designing, developing, and implementing innovative GIS solutions across diverse industries. Proven expertise in:

- Data Acquisition & Management: Mastering data collection, integration, and quality control for robust geospatial databases
- Spatial Analysis & Modeling: Leveraging advanced GIS tools and scripting to extract actionable insights and predict future trends.
- Application Development & Automation: Creating custom GIS applications and automating workflows for streamlined data analysis and visualization.
- Project Management & Delivery: Leading and coordinating GIS projects from inception to completion, ensuring on-time and on-budget delivery.
- Technical Proficiency: Adept in industry-standard software (ArcGIS Pro, QGIS, Python, etc.) and skilled in cloud-based GIS solutions.
- Communication & Collaboration: Effectively communicating complex spatial concepts to technical and non-technical audiences, fostering strong relationships with stakeholders..

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## EXPERIENCE SUMMERY

- Worked as a Senior GIS Engineer for Altitud Digitals India PVT Limited, Hyd from Sep 2022 to Sep 2023.
- Worked as a GIS Analyst for ADS Key tronics Engineering Pvt Ltd, Hyd from Sep 2021 to Sep 2022.
- Worked as a GIS Technical Lead (Production) for Sumadhura Geomatica Pvt Ltd, Hyd from March 2018 to August 2021.
- Worked as a Project Consultant for client of I & CADD Govt of Telangana, Andhra Pradesh Hyd from November 2013 to March 2018.
- Worked as a GIS Engineer for Sumadhura Geomatica Pvt Ltd, Hyderabad from July 2010 to September 2013.

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## Projects Summery

### **Altitud Digitals India PVT Limited**

Project : Data Analysis and Classification Research & Creative project, Parcel Annotation (work project)

Designation : Senior GIS Engineer

Software : Arc GIS Pro, Google Earth, QGIS 3.10.2, Global Mapper, AutoCAD

Period : September 2022 to September 2023

Roles :

- working with sensitive customer data and ensuring high standards for its protection and appropriate use
- Managing and administer GIS

infrastructure Coordinate technical aspects of work.

- Performing complex data conversions to meet workflow requirements, Interpreting and design complex database schemas Review.
- Integrating disparate databases and coordinate data integration into project workflows.
- Developing conceptual workflows and database schemas to meet project requirements.
- Reviewing work of other GIS employees and provide technical guidance, Overseeing the quality and accuracy of GIS mapping, databases and processes.
- Developing technical documentation for GIS work products and systems.

### **ADS Key tronics Engineering pvt ltd - TPA**

Project : Data Analysis, QA &QC of Telecom Domain

Designation : GIS Analyst cum QA&QC Engineer

Software : Arc GIS 10.8, Google Earth, QGIS 3.10.2, Global Mapper, AutoCAD

Period : September 2021 to September 2022

- Roles :
- Validating the New routes with Existing routes.
  - Optimization of the New Trench, where the route possibilities occur between two Locations.
  - Data translation, data validation, and data verification Removing data overlaps and duplications using topology, creating a database, conversions of projections, data formats, and creating map layouts/SLDs.
  - Preparing the Final output Data and Validation, ABDs validation, and field verification and quality checking in accordance with the site measurement book.
  - Ring Preparation of the closure confirmation report.
  - Coordination with multiple departments is required to efficiently integrate digital data into the GIS database.
  - Updating changes to fields in the GIS database and utilizing all registered geographic data to generate efficient quality control criteria.

### **Sumadhura Geomatica pvt ltd**

Project : Data Analysis, Classification and Mapping of Water Resource & Landbase

Designation : GIS Technical Lead

Software : Arc GIS 10.5, Google Earth, QGIS 3.10.2, Global Mapper, AutoCAD Civil 3d, Global Mapper, ERDAS

Period : March 2018 to August 2021

- Roles :
- Working with Enterprise Geodatabases (ArcSDE).
  - Serving as Project Executive or GIS technical Team leader to ensure that work is performed accurately in a timely fashion to meet project goals.
  - Developed and Production maps considered to be advanced in nature utilizing high level.
  - Provided GIS support for Design & Drawing Departments projects and asset management by utilizing dataset and tabular attributes, analysis, maps and reports. Collected and mapped drawing assets using high accuracy Global Positioning system (GPS) equipment.
  - Provided GIS technical support regarding asset locations and system

attributes to department personnel and engineering clients.

- Managed multi team data collection, processing. Prepared GIS presentation and ensured availability for questions from stakeholders regarding project progress and spatial analysis results.
- Developing Quality Control and Quality assurance methods to ensure data integrity/accuracy for clients actively engaged in major projects. Created and maintained large datasets and multiple file types.

Project : Data Analysis, Classification, Mapping Water Resource & Landbase work Projects

Designation : Project Consultant (Forest Proposals)

Software : Arc GIS 10.2, Google Earth, QGIS, Global Mapper, AutoCAD

Period : November 2013 to March 2018

- Roles :
- working with DGPS and Trimble GPS instruments.
  - Prepared GIS presentation and ensured availability for questions from stakeholders regarding project progress and spatial analysis results.
  - Worked as a GIS expert & supervised by attending duties with GIS Surveyor for geo-spatial Data collection.
  - The activities involved in this company are Co coordinating with the Survey team to schedule and set up production control plans and performing Quality checking.
  - Detailed Survey by using Total station and DGPS instrument, Large Scale Survey and Mapping, Processing, and plotting of data by using software's like Foresight for Nikon and Micro station, GIS & AUTOCAD etc.
  - Display geographic data on a view and reports generating. Use SQL to retrieve records from a database and display them on a view.

Project : Data Analysis & Planning Water Resource & Landbase work Projects

Designation : GIS Engineer

Software : Arc GIS 9.3, AutoCAD

Period : July 2010 to September 2013

- Roles :
- Plan the Fiber Network and traffic rings for traffic segregation.
  - Fiber planning for Network Update the Planned Construction, As-built, Row paths layer in GIS Planning & Implementation of Wire line network.
  - Update the Planned Construction, As build, Row paths layer in GIS.
  - Planned Link Migration like Core, Aggregate, CSS, POI and enterprise routes. Fiber Tracing through NE Tool.
  - Checking end to end Connectivity with tool Like FDP to FDP. Validation Planned Route and As-Built route.

## **EDUCATION QUALIFICATIONS**

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- **Master's Degree in Geoinformatics 2011**  
Ch Charan Singh University, Meerut  
Percentage of marks: First Class 60%
- **Degree in Geology 2009**  
Ch Charan Singh University, Meerut  
Percentage of marks: First Class 61.3%

### **Technical Proficiency:**

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- Advanced GIS software: Mastery of industry-standard platforms like ArcGIS and QGIS, including geospatial data manipulation, analysis tools, and cartographic techniques.
- Data management: Expertise in acquiring, integrating, managing, and cleaning geospatial data from various sources like databases, sensors, and satellite imagery.
- Programming and scripting: Knowledge of scripting languages like Python and R for automating tasks, data analysis, and model development.
- Database administration: Understanding of database structures and SQL queries for data retrieval and manipulation.
- Web mapping and application development: Skills in building interactive web maps and spatial applications using JavaScript libraries and frameworks.

### **Analytical and Problem-Solving Skills:**

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- Problem-solving and analytical skills: Demonstrate your ability to tackle complex geospatial challenges and derive insights from data. Give examples of projects where you applied these skills.
- Critical thinking and data interpretation: Making sense of complex datasets and drawing informed conclusions.
- Project management: Show your experience in managing GIS projects, including planning, budgeting, scheduling, and resource allocation. Quantify successful project outcomes if possible.
- Leadership and mentorship: If applicable, mention experience leading GIS teams or mentoring junior GIS professionals.
- Identifying spatial patterns and relationships: Extracting insights from geospatial data to solve real-world problems.

### **Communication and Collaboration:**

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- Presenting geospatial information: Explaining complex data and maps to technical and non-technical audiences effectively.
- Working with cross-functional teams: Collaborating with engineers, scientists, planners, and stakeholders to achieve project goals.
- Writing clear and concise documentation: Producing technical reports, user manuals, and other materials to share knowledge.

### **Additional Skills:**

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- Understanding of specific application domains: Expertise in relevant fields like environmental science, urban planning, transportation, or public health.
- Leadership and mentorship: Guiding and supporting junior GIS professionals.
- Staying up-to-date with new technologies: Continuous learning and adaptability to keep pace with the evolving GIS landscape.

### **PERSONAL DETAILS**

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Status : Married  
Permanent Address : 301, Telkar Residency, Chndanagar, Hyderabad - 500050  
Languages Known : Telugu, English and Hindi

Place : Hyderabad

Date :