

# Abdallah Ahmed

*Geomatics Engineer - Surveying Engineer / Makkah – KSA*

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## Objective

Survey Engineer with strong hands-on experience in land surveying and construction setting-out, proficient in using Total Station, GPS, and leveling instruments. Highly skilled in producing accurate survey data, detailed topographic maps, and comprehensive site reports. Recognized for precision, effective teamwork, and consistently delivering high-quality results in fast-paced construction environments.

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## Experience

### *GIS Specialist – Private Contracts*

*Dec 2023 – Ongoing*

- Processed and analyzed satellite imagery using ERDAS Imagine for land assessment and project planning.
- Developed customized GIS models and thematic maps in ArcGIS to support spatial data analysis and client decision-making.
- Produced accurate topographic and architectural maps by integrating survey data with AutoCAD.
- Delivered geospatial solutions for private projects, enhancing site planning and resource management.

### *Land Surveyor – Survey Authority Ministry of Urban Planning*

*Feb 2022 – Aug 2023*

- Collected precise field measurements for building and infrastructure sites in Merowe area, Northern Sudan using leveling instruments and surveying tools.
- Conducted land leveling and site grading works in Merowe, ensuring accurate elevation control and compliance with survey standards.
- Produced technical drawings and topographic maps using AutoCAD to support urban planning and construction projects.

### *Trainee Engineer Sudanese Ministry of Urban Planning*

*Jan 2021 – Sep 2020*

- Supported master planning activities through map preparation and spatial data verification.
  - Assisted in interpreting land-use plans, technical drawings, and site layouts.
  - Participated in field visits and field data collection using GPS-enabled tools.
  - Contributed to documentation and preparation of planning reports.
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## Education

Bachelor of Honors in **Surveying Engineering (Geodesy)**, Sudan University of Science and Technology | Khartoum, Sudan. Graduated: December 2023.

## COURSES

- Completed a professional training course in Total Station operation and field surveying.
  - Using Level in Engineering Project, Sudanese Creativity Training Center.
  - Comprehensive and Professional Administrative Staff Course.
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## Projects

**Flood Risk Management (GIS-Based)** Conducted a graduation project focused on flood risk mitigation and management in Al-Kalakla area, Khartoum, using Geographic Information Systems (GIS). The project involved spatial analysis of flood-prone areas, terrain and drainage assessment, risk mapping, and proposing suitable mitigation measures to support informed decision-making and disaster risk reduction.

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## Skills

### *GIS Software*

- ArcGIS Desktop (Spatial Analyst, 3D Analyst, Network Analyst)
- ArcGIS Pro (processing, Model Builder, 3D visualization)
- QGIS (plugins, processing toolbox)
- ArcGIS Online (Web Maps, Story Maps, Dashboards)
- WebGIS environments (feature services, interactive apps)

### *Land Surveying*

- GNSS systems: Static, RTK, PPK
- Total Station (topographic mapping, setting-out)
- Leveling instruments (benchmarking, elevation profiling)

### *Other Skills*

Attention to detail, analytical thinking, adaptability, leadership, teamwork, communication skills, multitasking, and decision-making.

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## LANGUAGES

- Arabic: Native
- English: Advanced