

# Osama Mohamed

## Quantity Surveying | Land Surveying | GIS Data Management

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Experienced Technical Office Engineer and Survey/Quantity Specialist with over seven years of expertise in cost estimation, quantity take-off, surveying operations, GIS data management, and technical documentation across major infrastructure and construction projects in Saudi Arabia and Sudan. Proficient in BOQ preparation, AutoCAD/Civil 3D drafting, topographic and construction surveys, and project planning, with a strong ability to support both design and site teams through accurate data, quality assurance, and coordinated communication. Known for improving workflow efficiency, ensuring compliance with engineering standards, and contributing to the successful execution of complex civil and infrastructure projects.

### Key Achievements

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- **Improved Quantity Accuracy:** Enhanced BOQ and quantity take-off precision by 25%, reducing financial variances and improving project cost forecasting.
- **Optimized Field Operations:** Completed **600+ surveying tasks using Level, GPS, and Total Station**, increasing project execution efficiency by 15% and minimizing rework.
- **Streamlined Technical Submissions:** Accelerated consultant approval time by 30% through improved shop drawings, documentation quality, and coordinated technical communication.

### Work Experience

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#### Technical Office Engineer

Riyadh Roads Contracting Co. | Riyadh, Saudi Arabia

Jul 2024 – Present

- **GIS Data Development:** Built and maintained integrated GIS project databases to enhance asset tracking and spatial analysis capabilities.
- **Technical Documentation:** Prepared detailed shop drawings, BOQs, and engineering documents supporting major infrastructure works.
- **Project Planning Support:** Assisted in developing project schedules, budgets, and work programs to optimize cost and time performance.
- **Quality Assurance:** Performed accuracy checks on technical designs and construction drawings to ensure compliance with standards.
- **Cross-functional Coordination:** Provided real-time technical support to site teams and facilitated communication with clients and consultants.
- **Progress & Payment Management:** Produced daily/monthly reports and managed contractor billing cycles to maintain financial transparency.

#### Survey Engineer

Abdulla Alsaaid Consulting Co. | Riyadh, Saudi Arabia

Jun 2023 – Jun 2024

- **Cost Control & Estimation:** Prepared cost estimates and project budgets, applying cost-control strategies to minimize financial variances.
- **Site Compliance Monitoring:** Conducted site inspections and reviewed engineering documents to ensure adherence to specifications and milestones.
- **Stakeholder Collaboration:** Coordinated with project teams to maintain seamless communication and prevent delays or workflow disruptions.
- **Financial Reporting:** Monitored budget deviations and produced performance reports for senior management and clients.

## Survey Engineer

Fu Hong Construction Roads & Bridges Enterprises | Khartoum, Sudan

Jul 2019 – Apr 2023

- **Survey Execution:** Operated GPS, total stations, and leveling instruments to perform topographic, cadastral, and construction surveys.
- **Data Processing & Mapping:** Processed field data and produced detailed maps, drawings, and reports using specialized software.
- **Planning & Risk Assessment:** Developed survey plans including timelines, resource allocation, and risk mitigation strategies.
- **Team Leadership:** Supervised multi-disciplinary survey teams, ensuring data accuracy, productivity, and adherence to safety standards.
- **Quantity Calculations:** Computed cut-and-fill volumes and supported design validation for large-scale civil infrastructure projects.
- **GIS Database Support:** Built GIS-based project datasets to enhance survey data integration and accessibility.

## Engineering Trainee – Airport Expansion Project

Sudan Civil Aviation Authority (SCAA) | Khartoum, Sudan

Apr 2018 – May 2018

- **Survey Support:** Assisted in surveying and mapping works for airport development projects.
- **Drafting & Design Review:** Participated in data collection, drawing preparation, and engineering design evaluations.

## GIS Analyst (Intern)

National Telecom Corporation | Khartoum, Sudan

Nov 2016

- **Spatial Data Collection:** Supported GIS data gathering for telecom network mapping and infrastructure planning.
- **GIS Database Development:** Contributed to building digital spatial databases for nationwide telecom assets.

## Key Projects

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- **Ajlan East 2 – 4063 Project (Ajlan & Bros Holding Group):** Contributed to an integrated infrastructure development covering **2,000,000 m<sup>2</sup>** and valued at over **200 million SAR**, including surveying support, technical documentation, and coordination of roadworks, utilities, and site development.
- **Basic Infrastructure Works for Site 68 (Al-Halwa):** Supported infrastructure works over **1,542,152 m<sup>2</sup>** with a project value exceeding **32 million SAR**, including road network construction, stormwater drainage systems, and traffic safety installations.
- **Al Rajhi Towers (26 Towers) – Khartoum:** Quantity surveying, inspection supervision, and level control.
- **Tadamon Islamic Bank Project – Khartoum:** Surveying, mapping, and drafting support.
- **Private Villa – Khartoum:** End-to-end site layout, leveling, and design verification.

## Education

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National University | Khartoum, Sudan

Postgraduate Diploma in Business Administration

Nov 2021 – Oct 2022

Sudan University of Science and Technology | Khartoum, Sudan

Bachelor's Degree in Surveying Engineering

Oct 2013 – Dec 2018

## Professional Memberships

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- **Saudi Council of Engineers – SCE | Membership ID:** 1038164 - **Issued:** Jun 2024
- **Sudanese Engineering Council | Membership ID:** 59692 - **Issued:** Mar 2019

## Certifications & Training

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- **Unmanned Aircraft Systems (Operator Permit) – UAS**
  - General Authority of Civil Aviation (GACA) – Saudi Arabia | Sep 2025  
**Credential ID:** UA-43519
- **NHC Innovation – (Engineering Qualification Certification)**
  - National Housing Company – Saudi Arabia | Mar 2024
- **Professional Quantity Surveying Certificate (320 Hours)**
  - Zoohal Engineering & Training Center – Sudan | Jul 2017
- **Project Management Professional (PMP) – Training Program**
  - 7Vision Training & Development
- **Integrated Fire Safety System – Certification**
  - 7Vision Training & Development
- **Quality Engineering Management – Certification**
  - 7Vision Training & Development

## Core Skills

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### Quantity Surveying & Cost Control

- Quantity Take-off & BOQ Preparation
- Cost Estimation & Budget Analysis
- Contract Administration & Variations
- Value Engineering & Cost Optimization

### Surveying & Field Operations

- Topographic, Cadastral & Construction Surveys
- GPS, Total Station & Leveling Instruments
- Cut & Fill Calculations
- Site Layout, Alignment & Level Control

### Technical Office & Engineering Support

- Shop Drawings & As-Built Documentation
- Project Planning & Scheduling Support
- Technical Reports & Progress Documentation
- Coordination with Consultants & Site Teams

### GIS & Data Processing

- ArcGIS, QGIS & GIS Database Management
- Spatial Data Analysis & Mapping
- Integration of Survey Data with GIS Systems

### Software & Technical Tools

- AutoCAD & Civil 3D
- Microsoft Office (Excel, Word, PowerPoint)
- Surveying & Data Processing Software

### Soft Skills

- Communication & Stakeholder Management
- Problem Solving & Decision-Making
- Team Leadership & Collaboration
- Time Management & Attention to Detail

## Languages

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Arabic (Native), English (Professional Working Proficiency).