

Ahmed Alaa Eid

Surveying Engineer | GIS Specialist | Remote Sensing Expert

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Career Objective

- A highly motivated and detail-oriented Land Surveyor and GIS Specialist with hands on experience in advanced surveying techniques, geospatial data analysis, and modern mapping solutions.
- Proficient in operating advanced surveying equipment such as Total Stations, Auto Levels, and GPS to ensure precise measurements and efficient field data collection.
- Skilled in utilizing industry-leading software like AutoCAD, ArcGIS Pro, ArcGIS Online, ENVI, and QGIS for creating accurate maps, conducting remote sensing analysis, and preparing comprehensive topographic reports.
- Expert in analyzing satellite imagery of all types, including multispectral, high-resolution, and radar images, with strong capabilities in data processing, image enhancement, classification, and spatial data extraction.
- Experienced in using tools like Google Earth Pro and SAS Planet for geographic analysis and site exploration. Proficient in Microsoft Office Suite (Excel, Word, PowerPoint) for efficient data analysis and report preparation.
- Successfully contributed to large-scale infrastructure projects, including a Tertiary Treatment Plant, gaining practical expertise in fieldwork and geospatial solutions.
- Passionate about continuous learning and adopting modern technologies to drive innovation and achieve organizational goals

Education

❖ **Duration:** 2019 – 2023

Faculty of Arts , Tanta University, Egypt

Bachelor of Arts in Geomatics (Surveying, Mapping, GIS, and Remote Sensing)

Overall Grade : Very Good with High Honors

Graduation Project:

Surveying project in Ras Mohammed Reserve at the Hidden Bay in Sharm El Sheikh

Professional Experience

❖ **Duration:** **August 2025 – Present**

Technical Office Engineer & Senior Surveyor – Zone 2 & 3

EDUCS International

Project: Hutchison Ports Terminal Development Project – Ain Sokhna Port, Egypt

Responsibilities & Achievements:

- Conducted surveying tasks using total station and leveling instruments.
- Measured and determined spatial points in alignment with engineering plans
- Prepared detailed field reports and topographic maps using AutoCAD and ArcGIS
- Gained practical experience in modern surveying techniques and large-scale project execution.s

❖ **Duration:** **January 2025 – August 2025**

Technical Office Engineer

BM Group

Project: MFO Camps Landscape & Infrastructure Development – Sharm El Sheikh

Responsibilities & Achievements:

- Reviewing and coordinating shop drawings with field conditions.
- Supporting engineering teams with GIS and geospatial data solutions.
- Preparing quantity takeoffs and technical reports.
- Processing engineering data for field surveying teams.
- Coordinating with different departments to ensure smooth project execution.

❖ Duration: **2024 – 2025**

Technical Office Engineer & Survey Specialist

Pic Albatros Grop

Project: krwn Resort Urban Expansion & Development – Sea World, Marsa Alam

Responsibilities & Achievements:

- Managing surveying works including topographic surveying, setting out, quantity calculations, and level adjustments.
- Using Total Station and Level instruments with high precision.
- Processing surveying data using AutoCAD and Civil 3D.
- Reviewing engineering drawings and coordinating with site teams.
- Monitoring field execution to ensure compliance with engineering plans and schedules.

❖ Duration: **2023 – 2024**

Surveyor

Hayah Karima Initiative

Project: Village Development Projects – Sadat City

Responsibilities & Achievements:

- Participating in surveying works for youth centers, local units, and healthcare facilities.
- Collecting accurate geospatial data and producing engineering maps.
- Supporting infrastructure rehabilitation and updating engineering layouts.

❖ Duration:

2019 – 2023

Surveyor: 2020 - 2023

Assistant Surveyor : 2019 -2020

Hassan Allam

Project: Triple Treatment Plant – El Jafra, Suez Road

Responsibilities & Achievements:

- Conducting surveying works using Total Station and leveling instruments.
- Setting out spatial features according to engineering drawings.
- Preparing field reports and topographic maps using AutoCAD and Civil 3D.
- Gaining practical experience in large-scale infrastructure projects and modern surveying techniques.

Graduation Projects – Class of 2023

Topographic Survey of Ras Mohammed Protectorate – Sharm El Sheikh

- Conducted surveying works using Total Station instruments.
- Produced accurate topographic and engineering maps for environmental documentation and tourism development support.

Remote Sensing Analysis of Ras Mohammed Protectorate

- Used satellite imagery and software such as ENVI and Google Earth Pro to analyze and update environmental features.

GIS Site Selection Study for Fire Station Construction

- Conducted spatial analysis for El Mohandessin, Agouza, and Dokki districts to determine the optimal location for a fire station.

Urban Expansion Analysis (1995–2020)

- Analyzed satellite imagery to monitor urban sprawl and its impact on agricultural lands in Egypt.

Courses & Certifications

❖ Duration: December 2024 – March 2025

Comprehensive Surveying Course – SQ Academy

Supervised by Eng. Bassem Said & Eng. Mohamed Said

Topics Covered:

- Advanced use of Total Station and Level instruments.
- Technical office workflows using AutoCAD and Civil 3D.
- Engineering execution in construction, utilities, roads, and sewage sectors.
- Complete Technical Office Surveying Training Program.

❖ Duration: January 2025 – March 2025

GIS Certifications – Esri

Courses:

- *GIS Fundamentals*
- *Problem Solving with GIS*
- *ArcGIS Pro Essentials*
- *Spatial Analysis & Interactive Mapping*

❖ **Duration:** **2020 – 2022**

Applied Remote Sensing Training Program (ARSET) – NASA & NOAA

Specializations:

- Processing and analysis of radar, multispectral, and high-resolution satellite imagery.
- Professional use of ENVI and ArcGIS Pro for geospatial analysis.

Technical Skills

Surveying Instruments

- Total Station
- Auto Level
- Theodolite

GIS & Remote Sensing Software

- ArcGIS Pro
- ArcMap
- ArcGIS Online
- QGIS
- Google Earth Pro
- ENVI
- ERDAS Imagine
- ER Mapper
- Sokkia Link
- Surfer
- GNSS Solutions

Geospatial Analysis

- Spatial Analysis
- Temporal Analysis
- Geostatistical Analysis
- Spatiotemporal Analysis
- Terrain & Surface Analysis
- Satellite Image Processing
- Spectral Signature Analysis
- Image Classification
- Accuracy Assessment
- Multivariate Analysis
- Data Mining
- Regression & Correlation Analysis

Engineering & Design Software

- AutoCAD
- Civil 3D
- Revit
- Microsoft Excel
- Microsoft Word
- Microsoft PowerPoint
- Primavera

Programming & Web Development

- HTML
- CSS
- JavaScript
- Python for Data Analysis & Remote Sensing Applications

Soft Skills

- Leadership
- Teamwork
- Time Management
- Decision Making
- Problem Solving
- Communication Skills

Languages

- **Arabic:** Native
- **English:** Good

Additional Information

- Passionate about continuous learning and applying modern technologies in surveying, GIS, and remote sensing.
- Dedicated to delivering accurate and efficient geospatial and engineering solutions.
- Interested in integrating software development with engineering workflows to build innovative digital systems for project management and geospatial analysis.