



AHMED FAWZY LOTFY

GIS & BIM INFRASTRUCTURE ENGINEER

SUMMARY

Infrastructure Engineer specializing in **GIS** and **BIM** integration, with over 9 years of experience in land surveying, spatial data management, and technical office operations.

I am highly skilled in **AutoCAD Civil 3D** and **ArcGIS Pro**, with strong capabilities in spatial data analysis and its integration within BIM workflows to enhance infrastructure design and execution.

In addition to these core strengths, I'm also proficient in: **Navisworks** (for clash detection and model coordination) **InfraWorks** (for 3D modeling and conceptual design) **Dynamo** (for automating tasks and streamlining workflows)

Started my academic journey at the **Haram Institute of Surveying**, then earned a Bachelor's degree in **Geomatics and Surveying Engineering** from **Shoubra Faculty of Engineering**, Benha University, building a strong foundation in geospatial technologies and land measurement.

My career includes working with major contracting companies such as **EMAK (M.A. Kharafi Group)** and **Concord for Engineering Contracting**, before joining **Hussein Sabbour Consultant Bureau** in 2019, one of Egypt's top engineering consultancy firms.

Currently, I serve as a **GIS Design Engineer** at **Euroconsult**, where I lead **BIM-GIS** integration to deliver smart, sustainable solutions that align with international standards and client objectives.

CONTACT

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SKILLS & ABILITIES

- Skilled at Learning new concepts & technologies and delivering them to my teammates effectively.
- Ability to detect and analyse issues & defects and come up with convenient solutions while meeting tight deadlines

EDUCATION

2013-2015

**Haram Institute of Survey,
General Survey Department.**
Diploma of General Survey

2017-2023

**Shoubra Faculty of Engineering,
Benha University.**
BSC of Survey Engineering

Total grade: pass

Graduation project grade: good

Graduation project about:

Cadastral map for Elgzira club using (Total station , GPS , Autocad).

topographic map using (leveling , GPS , Total station , Surfer).

road design using(civil 3d).

Remote sensing (change detection) using (ARCGIS)

triangulation network using (GPS , Trimble business Center).

AREAS OF EXPERTISE

- Autocad 2D
- Autocad Civil 3D
- Subassembly Composer
- Navisworks
- Infraworks
- Dynamo
- ARC GIS Package
- Google Earth Pro
- Laser Scanner
- GPS
- Total station
- Level

EXPERIENCE

Sep 2024 – Till Now

Euroconsult for Engineering Consultancy

GIS Design Engineer & BIM Infrastructure Engineer

In The BIM Department

Working as part of the BIM Unit, responsible for multi-disciplinary coordination and BIM modeling across various infrastructure

- Developed GIS and BIM models for infrastructure projects using As-Built & Design documentation
- Created spatial layers using ArcGIS Pro to represent road alignments, elevations, and utilities
- Built structured geodatabases with domains, subtypes, and spatial rules for accurate data management
- Integrated BIM data with GIS workflows to support 3D coordination and Z-value analysis
- Exported project deliverables in NWC, NWD, and IFC formats for coordination and client review
- Prepared bilingual technical and commercial proposals tailored to client specifications
- Participated in multi-disciplinary coordination across engineering departments
- Led GIS implementation for the Hajj Camp Management project in Mina and Arafat, using ArcGIS Online to create interactive dashboards representing camp zones, capacity, and logistics
- Designed and published web maps and dashboards to support real-time camp monitoring and decision-making during Hajj operations
- Collaborated with spatial data teams to ensure accuracy and compliance with regulatory standards

Contributed to the successful delivery of the following projects:

- Drones Airport – Al-Kharj
- Naval Base – Jubail
- Infrastructure Development – MASCO
- Arafat Project – Kidana

Sep 2019 – Aug 2024

Hussein Sabbour Consultant Bureau

SURVEY ENGINEER

As part of consulting and management projects team Worked on several projects in the company including Residential, Malls, Administrative, Hotel, Social, and Sports Buildings.

- Survey Studies & Shopdrawing,
- Coordination with all disciplines,
- Making proposals to solve relationship problems that take place on the site
- Inspection the requests for surveying works on site.
- Led the transformation of major company projects in Egypt's New Administrative Capital into GIS-ready geodatabases, ensuring alignment with consultant standards and streamlining future spatial analysis and reporting .

Nov2018 – Sep 2019

Al Ekhwa company, New Cairo, Cairo

SURVEY ENGINEER

- Survey Engineer As part of execution team Worked on the infrastructure project for GLALA UNI at New GLALA CITY.
- Creating the contour maps of the NGL,
- Staking the coordinates of the lines and the manholes ,
- Extract the data from the cad drawings and calculate the volume of cut and fill quantities.

Sep 2017 – Nov 2018

CONCORD

SURVEY ENGINEER

- Survey Engineer As apart of execution team.
- Worked on THE SPORTS CITY project at The New administration Capital.
- Creating the contour maps of the NGL,
- Extract the data from the cad drawings and calculate the volume of cut and fill quantities.
- Staking the coordinates of the Indoor halls, diving pools, swimming pools, playgrounds, a squash complex, a tennis court complex, volleyball courts, basketball courts, beach ball courts, and a hockey court.and the infrasructure of the city.

May 2015 –Sep 2017

EMAK (M.A.Kharafi Group)

SURVEYOR

- Surveyor As apart of execution team.
- Worked on The SHUBRA – BENHA High Way project
- The length of our scope is 17 km from 40 km (all length of the road)
- Scope of work are (Road –Bridges-Tunnels)
- Technical office works (QS - shopdrawing - extract surveying sheets - Document control)

TECHNICAL SKILLS

- Able to make BIM models for different wet and dry Networks using (Civil 3D - Navisworks- Infracad-Dynamo)
- Knowledgable in work , extract data, compute quantities using Autocad 2d and Civil 3d .
- Knowledgable in Geographic information system tools Including Arc GIS package and Q GIS .
- Knowledgable in using survey instruments including Total station , Level ,Gps.
- Knowledgable in using Microsoft office package including Excel , Word , Power point.

PERSONAL INFO

- Date of Birth: 20 / 9 / 1995
- Marital Status: Married.
- Military status: Exempted.
- Nationality: Egyptian.
- Driving license: Private.

TRAINING & CERTIFICATION

ESRI Academy

- CAD and BIM Data Integration with GIS
- ArcGIS Arcade (ESSentials- Introduction - Writing Expressions)
- Make an Impact with Modern Geo Apps
- Going Places with Spatial Analysis
- Spatial Data
- Data Management
- ArcGIS Pro package & ArcGIS online

Autodesk Academy

- Infrastructure BIM Project Essentials & Advanced using AutoCAD Civil3D.
- Infrastructure Project Conceptual Modeling and Visualization using Infracad.
- BIM Project Design Review, 3D Coordination and Clash Detection & Visual Sequencing and Cost Estimating (4D and 5D Simulation) using Navisworks
- BIM Project Technical Visualization and BIM Models Review using Revit
- Principals of using Dynamo

LANGUAGES

- Arabic (native)
- English (very good)