

Eslam Mostafa Afify Elnahas

Assistant Lecturer, Surveying and Geomatics Engineer

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Military service: Finished
Date of birth: 10/10/1996

EDUCATION

Sep 2015 - July 2020

Shoubra Faculty of Engineering

Bachelor of Surveying & Geomatics Engineering

Grade: Very Good with Honors (79.32%)

Graduation Project: Excellent

Oct 2021- Feb 2026

Shoubra Faculty of Engineering

Master of Science (M.Sc.) in Photogrammetry & Remote Sensing Engineering

Grade (Coursework): B+ (GPA: 3.343)

Thesis Title: Deep Learning versus Traditional Artificial Intelligence

Algorithms for Remote Sensing Applications.

Published research paper in August 2025 related to the thesis work.

Elnahas, E., et al. (2025). Deep learning versus traditional artificial intelligence algorithms for remote sensing applications. Engineering Research Journal (Shoubra),54(2):290-299

CERTIFICATES

- **Supervised Machine Learning: Regression and Classification** – Coursera / Stanford University, March 2024
- **Advanced Learning Algorithms** – Coursera / Stanford University, April 2024
- **Deep Learning Specialization** – Coursera / Stanford University, July 2024 Completed 5 courses Includes (Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models)

EXPERIENCE

Feb 2026 – Until Now

Assistant Lecturer at Shubra Faculty of Engineering Benha University

Mar 2022 - Feb 2026

Teaching Assistant at Shubra Faculty of Engineering Benha University

- Survey Engineer
- Supervisor of a surveying graduation project at Al-Ahly Club in Al-Jazeer
- Supervisor of a surveying graduation project at Al-Zohour Sports Club
- Supervisor of a surveying graduation project Helwan Observatory
- Teaching Assistant (Surveying 1, Surveying 2, Close range Photogrammetry, Photogrammetry 1 and Map projection)

Mar 2023 – April 2023

Surveying Engineer – Faculty of Engineering, Benha University

- Participated in university projects involving surveying and inspection of local roads in collaboration with municipal authorities.
- Conducted field measurements and data collection for road acceptance and documentation.
- Worked on projects in **Benha**, **Tukh**, and **Qaha** cities.

Mar 2022- Oct 2022

Vertex for Information System

- Survey Engineer
- Real Estate Registration Law (AutoCAD, QGIS, GIS Web)

Feb 2020 - July 2020

Graduation Project - Shoubra Faculty of Engineering

- Cadastral maps for Al-Zohour Sports Club.
- Establishing control points and network by GPS.
- Contour map for the area of interest.
- Design a highway road which intersects with Suez - Cairo Road using AutoCAD Civil 3D.
- Applying different analysis to Make Statistics to know the number of Corona deaths and the extent of their spread.
- Australian bushfire season by using Erdas Imagine (Classification & change detection)

Jan 2019 – May 2019

GIS Project to Bibliotheca Alexandrina - Shoubra Faculty of Engineering

- Geo-Socio-Economical Study for Slums
- Case study (Abu Regeila - Cairo, Egypt)
- Display For data
- Analysis for data
- Changes in the study area between the period of 2011 till 2019

Jan 2018 - Sep 2018

The Arab Contractors (Osman Ahmed Osman & Co.)

- Trainee
- project name: Rod El-Farag Axis "Tahya Masr Bridge"
- Surveying work for many construction of piles.
- Surveying for Excavation work

SOFTWARE SKILLS

Microsoft office (word -Powerpoint- Excel)

- Autodesk Autocad
- civil 3d
- Gis Programs (Arc GIS, Arc GIS pro)
- Trimble Business center
- Erdas imagine
- surfer
- sketch up
- Matlab
- Python

Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, OpenCV, Rasterio, GDAL and Patchify

- Remote Sensing & GIS: Google Earth Engine, QGIS, ENVI
- Machine Learning Tools: Jupyter Notebook, Google Colab
- Other Software: Microsoft Office (Word, Excel, PowerPoint)

INSTRUMENTS

- Total Station
- Theodolite
- Level
- GPS
- Laser Scanner

PERSONAL SKILLS

- Communication skills
- Teamwork skills
- Self-Motivated
- Attention to Details
- Problem solving

LANGUAGES

- Arabic: Native
- English: good