MOHAMMED **ALMOTAWA**

Senior Surveying Engineer and GIS Specialist

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Senior Surveying Engineer and GIS Specialist with a master's degree from UCD in Dublin, Ireland in geospatial data analysis. I am currently working at NCVC as a PMO leader and leading to develop the department structure and strategy, bylaws, and database. Aside from the leading aspects, I am a field team leader, performing analysis, and managing the geospatial data using ArcGIS pro.

Work Summary

June 2023 – Present

Senior GIS Specialist at NCVC (National Center for Vegetation Cover Development and Combating Desertification):

Manage field surveying, GIS, and Drones projects in the data collection department in the technology and digital transformation general department.
My responsibilities include but not limited to:

- **PMO Leader**: Responsible for project planning, performance oversight, and technical review of project outcomes to ensure alignment with our goals and quality standards.
- Developing database for NCVC lands properties, facilitating efficient land management and decision-making.
- Currently collaborating with the strategy department to establish the framework and strategic direction for our department. Responsible for designing the organizational structure, developing the department bylaws, defining operational guidelines, and aligning our goals with overall NCVC and the general department objectives.
- **Field Team Leader**: Responsible for coordinating and leading cross-departmental and inter-institutional teams in data collection efforts. Ensured seamless collaboration and efficient data gathering.

January 2021 – December 2021

A member of the Saudi Student Club in Dublin, Ireland – Organizing social activities and events.

January 2016 – December 2019

E-commerce Specialist – Private Company.

Led the company's transition from branch-based to online sales through the following key initiatives:
1. Built a centralized database and connected all branches and storage facilities.
2. Photographed and enhanced images of best-selling items using Photoshop.
3. Established accounts on major e-commerce platforms, including Souq.com and Noon.com.

Before leaving, I initiated plans to:
1. Develop our own online store to counter rising commissions and visibility issues on third-party platforms.
2. Conduct a market study to assess the feasibility of opening a new physical store.

June – August 2019

Practical Training – The General Directorate of Military Survey (GDMS).

April 2019

Practical Training – Ministry of Municipal and Rural Affairs (MOMRA).

Education

December 2022
Master of Science: Geospatial Data Analysis - University College Dublin:
 - Second Class Honour, Grade 1 (GPA: 3.30/4).
 - Dissertation: Predicting carbon monoxide concentration in Riyadh-Saudi Arabia using a land-use regression model.

January 2020
Bachelor of Science: Surveying Engineering - King Saud University.

Projects and Papers

Survey Camp at King Saud University's Campus: Levelling, Measuring Angles, Correcting Errors, and Mapping.
A paper on urban sprawl over 5 decades in Riyadh city using Landsat images.
A poster: Analysing the risk of population growth on air quality in the USA.
Multi-Criteria Analysis using a Model Builder on ArcMap.
Developing a 3D model: Showing a sea level rising using ArcMap and ArcScene.
Determination of the Least Cost Path using a Model Builder on ArcMap.
Assessing Development Plan (2017-2023) of Clare County, Ireland.
Programmed formulas on Excel sheets: Determining a set of initiatives for the unknown coordinates' points (calculating coordinates of unknown points using the ground and photo coordinates of three known points).
Python code organises files and folders based on its format.
Python code exports data from multiple excel sheets or files into one excel file.

Professional Skills

- ArcGIS Pro
- Esri products
- Python
- JavaScript
- MATLAB
- AutoCAD
- RStudio
- Adobe Photoshop