Mostafa Essam

Geospatial Solution Architect

GIS Project Manager

Database Administrator

GIS/RS Training consultant

Summary

An Expert in GIS/RS for more than 15 years of working in GIS, Remote Sensing industry.

Excellent reputation for resolving problems, Building Technical awareness and improving customer satisfaction.

Contact Info

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YouTube: user/sasapopsasa/videos

Languages

Arabic : Native

English : Fluent

Education

AIN SHAMS UNIVERSITY

• **Bachelor** of Arts "Geography"| Graduated 2009| **Grade:** Good

• **Postgraduate** GIS Diploma | Graduated 2016| **Grade:** Excellent **Project: "**Urban Growth Change Detection K.Elsheikh Governorate"

CAIRO UNIVERSITY

• **Premaster** in Applied GIS/RS

Graduated 2020| **Grade:** Very Good

• **Master's Degree Preparation**

Started 2022| Faculty of African postgraduate "Geography Department" using Geospatial DB, GIS, and RS

Work Experience

ABM Al-Olaian Group

Sep 2023 ~ Present

PROJECT MANAGER

SPGA Violation observation Center establishment

- ✓ Architecting & developing GIS& Remote Sensing Solution for automated Violation detection Model Using ERDAS Imagine
- ✓ Technical/ business management, Generating systematic workflow for better Digital Transformation process.

Spectrum for information systems

Feb 2023 ~ Sep 2023

PROJECT MANAGER

DIGITAL TRANSFORMATION PROJECT FOR THE EGYPTIAN ENDOWMENT AUTHORITY (AWQAF) AND ITS AFFILIATED REGIONS

- ✓ Architecting & developing GIS/Workflow Enterprise solution (GIS/DB integration)
- ✓ Technical/ business management, Generating systematic workflow for better Digital Transformation process.
- ✓ Development activities reviewing and checking and reviewing the plan backlog.
- ✓ direct, manage and motivate the project team in the client side & Assign tasks.

Ras-Alkhaima Emirate Municipality

Jan 2021 ~ Feb 2023

Julfar (Cairo Branch)

GIS BUSINESS ANALYST

- ✓ Translate business needs to technical specifications
- ✓ Design, build and deploy BI solutions, Develop, and execute database queries and analyses.
- ✓ collaboration **among RAK governmental entities** in the Spatial Data Infrastructure project SDI on behalf of the Municipality.
- ✓ Establish and maintain **analysis meetings** with key stakeholders.
- ✓ **Preparing BRD's & SRS's, gathering business needs, translating into a GIS prospective technical representation.**
- ✓ **Projects: RAK SDI, RAKEZ, RAKCSS, RAKGeoMap, Land Management**
- ✓ Working with the GIS manager to build a **GIS Strategy Plan** and **Building Capacity** programs.

Military surveying Authority
Egyptian Armed Forces

Mar 2020 ~ Jan 2021

DEVELOPMENT TEAM LEADER-EGYPTIAN NSDI

- ✓ Creating and Managing **SDI Applications**, **web map services, and workflow systems** using the unified Spatial Databases for authorities.
- ✓ Providing **interactive dashboards** and geospatial database mapping and Accessibility using **Power BI & M.App Enterprise**
- ✓ Creating and developing **web, desktop and mobile applications** using Hexagon software and Open-Source platforms.

DATABASE ADMINISTRATOR-EGYPTIAN NSDI

- ✓ Creating unified schemas for ENSDI project -as INSPIRE Modules- Using **POSTGRESQL & POSTGIS**, designing and applying required development.
- ✓ Generating **reports** from single or integrated multiple systems, Present **analysis** in easily digestible dashboards.
- ✓ Develop **SQL** Queries to automate analysis, **predict trends** and perform statistical analysis.
- ✓ Using **ETL Tools** to Extract, Transform, and Load Data from multiple sources to the unified schemes.
- ✓ **Implementing, developing** Spatial database configuration, **and managing permissions levels for** stagging and database security**.**
- ✓ Monitoring and **improving database performance**, capacity, load-balancing abilities, and further expansion requirements.

Other Education

UDACITY NANODEGREE

• Data Analysis | 2020
Period 4 Months | **Finished** 3 projects
Specialized in Data Analysis, Functions, Python Libs

Certificate: confirm.udacity.com/VCHSSK4C

• Front-End Web Development | 2021
Period 4 Months | **Finished** 3 projects
Specialized in JS Functions, Restful API's, node JS

Certificate: confirm.udacity.com/AFXQYNNC

• Advanced UX Design | 2022
Period 4 Months | **Finished** 7 projects
Specialized in Prototypes, Design/Managing Apps

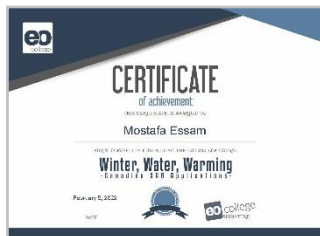Certificate: confirm.udacity.com/P6X6UVXD

EO COLLEGE

CANADIAN SAR APPLICATION | 2022
Period 16 Days
Specialized in Remote Sensing SAR Data processing.

Certifications

References

All references available upon request

Edge-pro for information systems   Sep 2018 ~ Feb 2020
REMOTE SENSING Senior ANALYST

- ✓ Creating lots of **Remote sensing analysis models** in major projects with the governmental ministries
- ✓ Working with Egyptian armed forces authorities within **high-level RS projects**.
- ✓ **Publishing geospatial services, solutions, and RS models online for major proposes to meet clients' needs.**
- ✓ Providing **specialized, tailored R.S Application** for governmental sectors for specific purposes **Such as**: **Ministry of irrigation**, **Ministry of planning, armed forces authorities.**

Adeeb Alganob for engineering consultancy   Aug 2015 ~ Jul 2017
Abha - KSA
GIS ANALYST

- ✓ Integrating **GIS**, Computer-Aided Design (**CAD**) and Global Positioning Systems (**GPS**) for GIS mapping services, Data Conversions and reformatting Using ESRI Software "**ArcGIS 10.6.1**" .
- ✓ Producing maps including contour maps, spatial maps, thematic and zonal maps, landscape maps, environmental maps for mining.
- ✓ Generating an efficient data management model using ArcGIS for easy access, analysis, and utilization.

Petrographics for Petroleum Services   Sep 2009 ~ Dec 2014
GIS CARTOGRAPHER

- ✓ Providing **Data management**, **archiving spatial data** for service areas.
- ✓ well-loggings and mapping, extracting exploration maps, providing map Layouts and digitizing services with data entry.
- ✓ Building **spatial Geodatabases** using **ArcGIS 10.2** and SQL Server with Raster-vector data.

Initiatives & Projects

EGYPT   OVER THAN **4** YEARS
TRAINING CONSULTANT

- ✓ Teaching Remote sensing Theoretical & Practical for **I.T.I, Telecommunication ministry**
- ✓ Teaching GIS and Remote Sensing at **MIA Academy-Maadi, Cairo & OASIS Academy- Ismailia**.
- ✓ Lecturing Remote sensing Theoretical & Practical for **local government agencies and governmental/private institutes** around Egypt.
- ✓ Providing **online sessions** for students in GIS/Remote sensing industry.
- ✓ Identifying and **proposing solutions** to any road bumps that the students/team hits along the way of any practical work.
- ✓ GIS/RS lessons on my **YouTube Channel**: https://youtu.be/OqNlVMRnDb4
- ✓ Teaching GIS, RS topics for **Dubai Municipality Technical staff.**

NIRAS CO. WARSAW, POLAND   Feb-Apr 2022
REMOTE SENSING EXPERT

- ✓ NIRAS has concluded with European Union Delegation to Egypt an agreement (Main Contract) for implementing the project **Crop Classification and Mapping Fields**.
- ✓ support the ongoing operations of the WAU, working side by side with the Planning Sector staff to produce especially accurate Crop Maps for the Delta.

SAUDI ARABIA   Aug-Oct 2021
GEOSPATIAL SOLUTION ARCHITECT

- ✓ Provide help & support online along 3 months for projects involving detailed spatial analysis for GIS projects.
- ✓ Initiate the SRS document for **Jizan Region Municipality** for GIS observatory project.
- ✓ Initiate the SRS document for **Mecca the Holy capital Municipality** for GIS observatory project.
- ✓ Creating projects implementation plans, phases and used enterprise systems.

ENOC Co. DUBAI, UAE   Feb 2013 ~ Jan 2014
GIS DRAFTSMAN

- ✓ Providing an **inventory** for well logging data, creating & administrating geodatabase.
- ✓ Reformatting, Data conversion, Integration and Quality assurance.
- ✓ Providing Data management, archiving spatial data for petroleum areas, well-loggings and mapping, extracting exploration maps.