



Nazih Ouerghi

GIS Expert / hydraulics and land use engineer

Profile

Highly skilled Business Analyst with over a decade of experience in Geographic Information Systems (GIS), business process optimization, and Agile methodologies. Expertise in business process modelling (BPM), geospatial analysis, and GIS workflow automation to enhance operational efficiency. Proven ability to gather and define business requirements, facilitate cross-functional collaboration, and optimize GIS-related processes. Strong background in testing, validation, and stakeholder communication to align technical solutions with business objectives. Fluent in English, with experience working in hybrid and Agile-driven environments.

Employment History

GIS Expert at SFM technologies, Conakry

May 2024 — December 2024

Conducted a strategic and technical audit of network coverage in white and gray zones across the Republic of Guinea, and implemented a Geographic Information System that included a data collection tool, a geodatabase model, and dashboard for enhanced analysis and reporting.

MEL Director for Technologies at Chemonics Inc., Tunis

May 2021 — April 2024

Supported the MEL team leader in designing and implementing the project's monitoring, evaluation, and learning (MEL) system. Provided administrative and technical oversight for the GIS system, CRM, and digital processes to enhance qualitative and quantitative data collection, monitoring, and analysis. Served as the system administrator for JOBS data management technology, ensuring data backup, license management, and system continuity. Collaborated with GIS consultants to upgrade and maintain GIS and CRM systems, while supervising MEL/GIS specialists and data analysts to ensure electronic quality controls for timely data collection, verification, and reporting.

Senior MEL specialist at Chemonics Inc, Tunis

July 2019 — May 2021

Supported the design and implementation of the project's monitoring, evaluation, and learning (MEL) system. Managed the performance indicator tracking system within ArcGIS, ensuring electronic tracking of all JOBS activities. Assisted USAID technical staff and third-party monitoring groups during field visits and Data Quality Assessments (DQAs). Implemented a long-term mobile data collection and web mapping strategy using ArcGIS Online, including updating maps and forms for data collection.

Details

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Skills

Business Process Management

ArcGIS Pro, ArcGIS online

Web Development

GIS

Python, SQL

Languages

English

French

Arabic

Hydraulic Engineer & GIS specialist at Gafsa Phosphates Company, Gafsa

October 2016 — July 2019

Supervised and provided guidance to staff and junior employees on new and existing projects, ensuring smooth work operations. Managed GIS special projects, including map creation, report development, cartographic analysis, data extraction, and spatial layer creation to support geological mapping. Led the development of new research projects, site exploration, and cost estimation. Collaborated with staff, research institutions, and local governments to develop environmental research projects.

Geospatial Analyst Engineer at Ministry of the National Defence, Tunis

April 2014 — October 2016

Collected, integrated, and analyzed spatial data for the national topographic database, developing geospatial methodologies and performing computer modeling/analyses for both new and existing projects. Created and maintained automated processes using Model Builder and Python scripting, and developed ArcGIS add-ins (.NET ArcObjects) to ensure data integration quality. Provided instruction to junior employees on best practices for GIS mapping projects and led defense-related GIS-based mapping initiatives. Managed geospatial data in a multi-user enterprise environment, ensuring data quality for the national topographic database (25k) and oversaw data collection for the Multinational Geospatial Co-production Program, producing a 1:50,000 scale digital geoinformation database. Contributed to soil mapping research, collaborating with national and international research institutions, and presented completed work at conferences and project meetings to generate new project opportunities.

Education

Master's Degree, Geomatics Engineering., National Engineering School of Tunis, Tunis

2011 — 2013

Final project related to the study of the geodesic system in Tunisia and Build a .NET Web Application supports all of the coordinate projection used in Tunisia.

Engineer's National Diploma, Hydraulic Engineering., Higher School of Engineers of Medjez El Bab, Medjez el Bab

2007 — 2011

Final project is focused on studying and evaluating the Urban Flood Risk affecting Boumhel El Bassatine Area, mapping of the flood risk. Second year research project: Principles of Design and Operations of Macrophyte Wastewater Treatment.

National Examination for Admission to Graduate Engineering Programs, Preparatory institute for engineering studies of Bizerte, Bizerte

2005 — 2007