



MAHMOUD SABRY ALI

CIVIL DESIGN ENGINEER

PERSONAL PROFILE

Dedicated, highly motivated and results-oriented Engineer seeking to leverage in-depth technical expertise and proven track record in challenging Flood Protection & Storm Drainage projects.

CONTACT INFO

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AREAS OF EXPERTISE

Intellectual skills of analysis and the ability to think in creative and innovative ways directed towards problem-solving and efficient design. Adept at delivering comprehensive design packages for flood protection projects especially for highway projects, encompassing concept, detailed, and Issued for Construction(IFC) submissions. Skilled in creating layouts, reports, 3D models, annexes, bills of quantities (BOQs), and BIM models for designated structures, while adhering to location-specific codes and procedures.

OTHER SKILLS

- ★★★★☆ Teamwork
- ★★★★★ Team Management
- ★★★★☆ Ability to Multitask
- ★★★★★ Flexibility and Adaptability
- ★★★★★ Fast Learner
- ★★★★★ Communication
- ★★★★★ Advanced Computer Skills
- ★★★★★ Analytical Thinking
- ★★★★☆ Principles and Practices of Engineering
- ★★★★☆ Creative Problem Solving
- ★★★★★ English

ACADEMIC HISTORY

AIN SHAMS UNIVERSITY

WATER AND HYDRAULIC STRUCTURES DEPARTMENT

Bachelor Degree of Science in Civil Engineering_].
Aug 2020

GRADUATION PROJECT:

Flood Protection & Storm Drainage Network for Al-Alamain South Development Area.

WORK EXPERIENCE

JUNIOR SITE ENGINEER AT ARKAN INTERNATIONAL

Nov, 2020 - Mar, 2021

- Assisted senior engineers with any and all tasks related to ensuring project success.
- Carefully managed project requirements so that milestones were met during agreed time and within budget confines.
- Ensured that building regulations were all met and provided thorough directions with any unusual or difficult engineering issue.

CS & SALES REPRESENTATIVE AT TELEPERFORMANCE

Apr, 2021 - Oct, 2021

- Dealt with customers as a billing and sales agent as well as handle their requests with the best way possible in regards to client policy.
- Supervised by a timely mannered matrix and high quality frequent interactions to achieve target while handling cases to reach best outcome.

SALES AGENT AT ZAMMIT

6 Mar, 2022 - 27 Mar, 2022

- Land leads and clients that meet the criteria needed.
- Achieve consistent sales over time.
- Ability to explain and tutor all the details of our products.
- Prioritizing efforts and plans that will have maximum business impact and ensure that the team is deeply cross-functional in order to meet needs of the e-commerce business and the client's needs
- Maintain and update an organized agenda detailing quotas, territory analyses, and results reports.

INTERNSHIP AT KHATIB&ALAMI CONSULTANT

29 Mar, 2022 - 1 Jun, 2022

- Using Raw Data collected with selection of Relevant Design Criteria for the development of adequate Flood Protection and Storm Drainage schemes and hydraulic designs of its elements.
- Tasks as : Rainfall analysis / watersheds Delineation / Hydrological calculation/ Modeling & design for storm drainage networks /checking and analysis for storm drainage systems to the final Alignment and profile drawings / Hydrological computations for a Flood protection project

- Utilized Computer Models and software as: WMS/ GIS techniques (Arc-Hydro Tools, Spatial Analyst, etc...) / HECHMS / Excel / Sewer GEMS / Auto CAD Civil 3D / Hyfran /Flow master / Culvert master / Global mapper /

Utilized Projects:

- NHC - Obhour RH-1855
- NHC - El Qiran El Nar RH-1912
- Neom - Trojena

WORK EXPERIENCE

ENGINEER AT KHATIB & ALAMI, CAIRO

2 June 2022 – Present

Leveraging comprehensive data analysis and advanced design methodologies, contributed to the successful development and delivery of critical infrastructure projects at NEOM. Starting as a Junior Engineer, I quickly progressed to lead successful infrastructure projects at NEOM, demonstrating expertise in flood protection and storm drainage design.

NEOM, Highway 55

- Spearheaded the creation of one of the first approved design packages, showcasing expertise in data analysis, design principles, and clear communication, showcasing proficiency in data and design analysis and results representation and delivery.
- Led more than one team under my senior supervision in designing, modeling, and documenting critical flood protection infrastructure (Bridges, channels, dikes, culverts, Side Slope protection, Ditches, etc.).
- Submitted high-quality layouts and reports, ensuring project approval and compliance with Neom standards and client needs.
- Utilized received data to design, model, and document flood protection structures for highway protection and drainage.
- Performed and delivered concept, detailed, and IFC design using industry-standard software, Neom specifications and standards.
- Conducted meteorological and hydrological analysis.
- Created 3D BIM models using Dynamo for the Designed Structures to enhance project visualization and collaboration.

NEOM, Road 8784

Helped in the Design, revision and production of the flood protection structures (culverts, Scour Protections, Ditches etc.) both for detailed and IFC submissions.

NEOM, TT Service Center Access Road

Led my team for the complete design, layouts, BOQ and report production for all the hydraulic structures protecting and draining the Truck and Center access road. Starting by Concept then Detailed and then IFC Design Flood Protection Structures with coordination with Site G and the ability to design and represent all temporary and permanent protections that suites the client needs and specifications.

NEOM, Assessment of NEOM Roads and Structures

Assessed existing NEOM bridges and culverts in a 20 day Site viste with 3 other members in two teams for more than 300 structures at tabouk-deba road and Haki by taking projected pictures and using checklist and notes all used to produce Site Viste report and annex for all visited structures.

Buraydah , Storm Network

Collaborated within two teams to develop a secondary solution for an existing storm network. Leveraged existing data to build a comprehensive network model and formulated innovative solutions to address identified issues.

Other

Demonstrated versatility by contributing to various departmental projects leveraging expertise in Civil3D, BIM, and Dynamo. Successfully produced reports, facilitated CRS follow-ups, work with draftsmen and actively participated in collaboration meetings.

ACHIEVMENTS

AT KHATIB & ALAMI

- Mentored and trained over 8 interns, contributing to their professional development and successfully onboarding 3 of them into the company.
- Traveled 20 days mission for Site Vistes to Picture, document notes, evaluate and produce reports for over 300 Structures (Culverts, Bridges) at Tabouk and Haki in Saudi Arabia.
- After more than 1 year work in a very fast track delivery for the Neom packages to be submitted, Me and the great team successfully landed Code A for all its deliverables for the packages (C1, C3, C4, C6, C7) in the HWY-55 project and well as the TT Project which is a hwy-55 variable.

TRAINING

AT KHATIB & ALAMI

- Hec-ras 2D Representation model of hydraulic structures on specified terrain and specifications., Storm drainage department at Khatib & Alami
- Civil 3D channel design and quantities calculations for a specific location and specifications, Storm drainage department at Khatib & Alami
- BIM model for finalized Storm Network provided to be represented by the required layers and template and naming, Storm drainage department at Khatib & Alami

SOFTWARE

AUTODESK CIVIL3D, AUTOCAD

NAVISWORKS

HEC-RAS 2D, HEC-RAS 1D

ARCGIS

WMS , HEC-HMS

SEWERGEMS

FLOWMASTER, CULVERTMASTER, CULVERT STUDIO

HYFRAN

GLOBAL MAPPER, SAS PLANET

MICROSOFT OFFICE

REFERENCES

Available upon request