

# WALEED MOHAMED ZAHER

Civil Engineer (Experience +6 Years)  
Certified by the Saudi Council of Engineers  
Certified Engineer at Riyadh Municipality

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## Summary

- Dynamic civil engineer with over six years of hands-on experience, specializing in the execution of infrastructure projects for water supply and sewage networks. Throughout my career, I have been committed to delivering sustainable solutions that address urgent community needs while adhering to the highest engineering standards. I have successfully completed multiple projects that significantly improved access to clean water and sanitation facilities for underserved populations. Passionate about driving positive change through engineering.

## Education

From Sep 2013 To Jun 2018	<b>Bachelor's Degree in Civil Engineering, Assiut University</b>	<b>Grade:Very Good</b>
	<ul style="list-style-type: none"><li>Grade: Very Good</li><li>Acquired a strong foundation in various aspects of civil engineering, including structural design, construction management, transportation and traffic engineering, geotechnical engineering, environmental engineering, roads, bridges, and infrastructure.</li></ul>	
From Feb 2018 To Jun 2018	<b>Design of High-Rise Concrete Structures (Graduation Project)</b>	<b>Grade:Excellent</b>
	<ul style="list-style-type: none"><li>prepared preliminary designs for foundational structures such as footings and reinforced concrete frameworks using appropriate engineering software for structural analysis.</li><li>Delivered technical reports, load analyses, environmental condition assessments, and material quantity take-offs for proposed designs.</li></ul>	
From Sep 2017 To Jan 2018	<b>Structural Design and Analysis Diploma (ITTU - I Design)</b>	<b>Grade:Excellent</b>
	<ul style="list-style-type: none"><li>Covered software tools such as AutoCAD, Revit, Excel, ETABS, SAFE, and SAP 2000 for structural analysis, building component design, and BIM modeling to create detailed 3D models integrating design and construction data.</li></ul>	

## Programs Skills

- Autodesk AutoCAD
- AutoCAD Structural Detailing
- Autodesk Revit
- Primavera P6
- Microsoft Excel
- Bentley SewerCAD
- Bentley WaterCAD
- CSI SAP 2000
- CSI ETABS
- Microsoft Word

## Soft Skills

- In-depth understanding of sewage systems, including networks, tanks, and decentralized treatment options. Knowledge of regulatory laws and construction standards.
- Effective communication for team collaboration, client proposals, and conveying technical information to stakeholders.
- Problem-solving, critical thinking, and creative solution development are essential for civil engineers.
- Team collaboration, conflict resolution, and meticulous attention to detail to ensure accuracy in calculations, drawings.
- Commitment to lifelong learning and staying updated with industry trends, technologies, and best practices.

## Languages

- Arabic language (Mother Language)
- English language (Good Speaking-Very Good Writing)

## Work Experience

### Construction Rocks Company For General Contracting - In Riyadh

From Jan 2025 To May 2025

Quantity Surveyor and Technical Office Engineer for the Project Of Maintenance and Rehabilitation of Stormwater Drainage Networks in Central Riyadh Districts

#### Work Scope:

- I worked as a Quantity Surveyor and Technical Office Engineer on a municipal infrastructure project under the supervision of Al-Amro Engineering Consultants and commissioned by the Riyadh Municipality.
- My responsibilities included preparing and reviewing quantities, cost estimates, and Bills of Quantities (BOQ) for maintenance and rehabilitation works of stormwater culverts and their associated drainage networks.
- The scope of work also covered the preparation of technical documentation, reviewing of shop drawings and as-built drawings, as well as the preparation of weekly and monthly progress reports.
- Additionally, I was responsible for ensuring that all works complied with the project's technical specifications, the standards of the Riyadh Municipality, and best engineering practices.

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## Continue Work Experience

### National Authority for Drinking Water and Sanitation - In Assiut Governorate

From Aug 2021 To Nov 2024

Site Engineer and Technical Office Engineer in projects under the "Decent Life" Initiative in Assiut Governorate, covering the following villages: Garf Sarhan, Al-Matawa'a, Shalash, Bani Yehia, Nazlat Abdallah, Nazlat Al-Awamer, Al-Houta Al-Gharbia, Al-Houta Al-Sharqia, Kom Buha Bahri, Qasr Haidar, and Masarah.

#### Work Scope:

##### 1. Main Gravity Sewer Lines

- Execution of excavation works and pipe installation with diameters ranging from 200 mm to 1200 mm, covering a total length of 140 km, using various types of pipes including UPVC, HDPE, and Ductile Iron.
- Construction of replacement (bedding and backfilling) layers below and above the pipes, Shoring of trench walls using timber and steel systems, De-watering in areas with high groundwater levels, and Backfilling up to the natural ground level.
- Execution of circular manholes (diameters: 1.0 m to 1.2 m) and square manholes (sizes: 1.2 m, 1.5 m, and 1.75 m) at depths reaching up to 8 meters.

##### 2. Transmission Lines for Sewage

- Execution of 30 km of transmission lines with pipe diameters ranging from 250 mm to 1400 mm, using pipe types such as UPVC, HDPE, and Ductile Iron.
- Construction of air valve, washout, and thrust relief chambers, Precise installation of special fittings and valves.

##### 3. Main and Secondary Lifting (Pumping) Stations

- Execution of: Inlet valve chambers and collection sumps with diameters from 4 m to 18 m, Construction of pumping station buildings, control rooms, and service buildings including: Control Rooms, Valve and Flow Measurement Chambers, Guard Rooms, Warehouses, Generator Rooms, Transformer Buildings and Paving of internal roads.

##### 4. Compact Tertiary Treatment Plant (300 m<sup>3</sup>/day Capacity)

- Execution of: 3 m diameter collection sump, Treatment facilities including: Screening Units, Aeration Tanks, Sedimentation Tanks, Filtration Units, Chlorine Contact Tanks and Sludge Holding Tanks.

### Egyptian Foundation for Engineering and Trade - In Red Sea Governorate.

From Jun 2020 To Jun 2021

Site Engineer in the Rehabilitation Project of the Safaga – Ras Ghareb Wastewater Treatment Plant.

#### Work Scope:

##### 1. Gravity Sewer Network Works

- Maintenance and Assessment of the existing network (total length: 12 km), including: Jetting, cleaning, and testing of pipelines, Structural defect analysis, Identification of maintenance requirements and Coordination with technical teams to ensure timely execution of repairs.
- Construction of New Sewer Lines with a total length of 6 km, including: Excavation works, Installation of pipes with diameters ranging from 200 mm to 600 mm, using various materials: uPVC, HDPE, Ductile Iron, Reinforced Concrete, and Vitrified Clay, Construction of replacement (bedding and backfilling) layers, Shoring of trench walls using timber/steel systems, Groundwater dewatering where necessary,
- Construction of circular manholes (1.0 m – 1.2 m) and square manholes (1.2 m – 1.5 m – 1.75 m) at depths up to 6 meters.

##### 2. Rehabilitation of the Safaga–Ras Ghareb Wastewater Treatment Plant

- Planning and execution of rehabilitation works to improve the infrastructure performance, including: Repairs and refurbishment of anaerobic and facultative oxidation ponds, Replacement of damaged concrete slabs.
- Execution of waterproofing works for the pond surfaces to prevent leakage and Surface leveling to facilitate safe movement.

### Arab Teck General Contracting Company - In Assiut Governorate

From Aug 2018 To May 2020

Site Engineer in a Sewerage Project in Dairout Al-Sharif Village.

#### Work Scope:

##### 1. Execution of Main Gravity Sewer Lines

- Construction of sewer networks with a total length of 46 km, using pipes with diameters ranging from 200 mm to 700 mm, made of uPVC, HDPE, and Ductile Iron.
- Excavation works reaching depths up to 6.5 meters, including: Shoring of trench sides, Laying of replacement layers (bedding and backfilling) below and above the pipes and De-watering operations where groundwater levels were high.
- Construction of circular manholes (diameters: 1.0–1.2 m) and square manholes (sizes: 1.2–1.75 m),

##### 2. Execution of Transmission Lines

- Construction of: 350-meter-long transmission line (400 mm diameter), and 5 km transmission line (600 mm diameter), using uPVC, HDPE, and Ductile Iron pipes.
- Execution of air valve, washout chambers, and Installation of special fittings and valves in accordance with specifications.

##### 3. Construction of Pumping Stations

- Construction of collection sumps: 5 m diameter for secondary stations, 10 m diameter for the main station.
- Execution of inlet valve chambers and pumping station buildings, including: Control rooms, Valve chambers, Guard rooms, Warehouses, Utility structures such as generator rooms, transformer rooms, fuel tanks, Perimeter fencing and Internal roadworks and access paths.