

Holds B. Sc. in Mechanical Engineering, MBA (Master in Business Administration) and DBA (Doctor in Business Administration). Has over 27 years of experience in Oil & Gas, Power Generation, Desalination and Industrial Projects. Proven track record in leading multidisciplinary and multinational engineering teams across all project phases including Conceptual Design, FEED, Detailed Engineering, and Execution (brownfield and greenfield).

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 22/05/1972  
Gender : Male  
Residence : Cairo

## **EDUCATION**

- : B. Sc. in Mechanical Engineering, Helwan University, 1997
- : MBA (Master in Business Administration), International Business School of Scandinavia (Egypt Branch), 2017
- : DBA (Doctor in Business Administration), International Business School of Scandinavia (Egypt Branch), 2021

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

- : Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Holding a consultant degree in piping design from Egyptian Engineers Syndicate under consultant number 03/1539.
- : Program of hydraulic Instructions (pipenet for water system).
- : Training Course in Basic and Advanced AutoCAD at Training Cad Center.
- : Training Course in Valves selection.
- : Training Course in PDMS11.6.
- : Training Course Caesar II.
- : Training Course ASME B-31.1.
- : Training Course smart plant SP3 (model review).
- : PMP Course 40 hours.

- : AutoCAD
- : 3DM for piping modeling working with micro station.
- : IPE for piping isometric of 3DM modeling.
- : MS Office
- : Internet applications

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2025 till now
- Employer** : SBS Project and Technology – Oil & Gas, Egypt – EPC
- Projects** :
- Delta Fertilizers & Chemical Industries, Egypt brownfield (Lead 8 Eng., 3 Designers, 6 Technicians):
    - Participated as part of the main contractor in upgrading instrumentation and control systems and piping components for utilities including natural gas, steam, instrument air, and feedwater systems serving boilers and deaerator units.
    - Updated P&IDs and performed engineering calculations and HAZOP studies to ensure system safety and compliance.
    - Lead 3D modeling activities using laser scanning technology for existing facilities to support accurate design integration and retrofit execution.
    - Supported material supply, installation, and commissioning phases.
  - Petroleum Pipelines Company (PPC) – Tanta, Damanhur, Kafr El-Dawar, Egypt (12 Engineers, 3 Designers):
    - Delivered EPC scope for complete firefighting systems across multiple tank farm locations through the three location plants.
    - Designed and implemented fire pump stations, foam systems, and gas suppression systems for electrical and control areas.
    - Ensured compliance with international fire safety standards and operational reliability across all sites.
  - ENPPI / Pharaonic Petroleum Company – Egypt (6 Engineers, 3 Designers):
    - Designed and implemented fire protection systems including sprinkler systems, fire alarm systems, and fire hose cabinets for laboratories and warehouses.
    - Delivered clean agent gas suppression systems for control buildings.
    - Engineered and supplied water deluge valve skids, including fabrication and site delivery.
- Job title** : Engineering Manager
- Job Description** :
- Lead and manage multidisciplinary engineering teams, ensuring delivery aligned with schedule, scope, budget, and quality requirements.
  - Plan and maintain organizational structure, including recruitment, resource allocation, and workforce optimization.
  - Review and approve engineering designs to ensure full compliance with international codes, standards, and project specifications.
  - Drive innovation and continuous improvement by introducing new technologies and enhancing engineering workflows.
  - Conduct performance evaluations and actively support team development, mentoring, and succession planning.

- Coordinate effectively with Project Management, Proposals, Procurement, and Site Execution teams to ensure integrated project delivery.
- Provide high-level technical advisory and strategic input to executive/board management.
- Represent the company in technical meetings with clients, consultants, and regulatory authorities (e.g., Civil Defense).
- Support pre-sales and proposal development through technical input and value engineering solutions.
- Act as a key interface between clients and internal teams, ensuring clear communication and alignment of expectations.

**Dates** : From Jan. 2021 till Aug. 2025

**Employer** : Al-Rehab Corporation (Mohamed Ali) for general contracting and supplies – Egypt

**Job title** : Engineering Manager / Technical Office Lead  
(Contracting & Industrial Projects)

**Job Description** :

- Led technical reviews, execution oversight, and engineering follow-up for multidisciplinary projects across the Oil & Gas, Energy, Electro-Mechanical, and Real Estate sectors.
- Managed coordination between engineering and construction teams, ensuring alignment with project scope, client requirements, and delivery schedules.
- Supervised engineering and site teams, monitoring project progress and resolving technical and construction challenges to maintain schedule and quality objectives.
- Served as the primary technical interface with major contractors, supporting successful project execution as a subcontractor for leading organizations including Orascom Construction and Hassan Allam Holding.
- Ensured compliance with technical specifications, contractual requirements, applicable engineering codes, and quality standards throughout project execution.

**Dates** : From Aug. 2020 till Dec. 2020

**Employer** : Self-Employed

**Project(s)** : Engineering and Industrial Project

**Dates** : From Sep. 2019 till May 2020

**Employer** : Jacobs Zate, Alkhobar – KSA (Engineering GS+)

**Projects** :

- SSDA Project – Riyadh Refinery (Proposal Phase):
  - Participated in the proposal for the Supercritical Solvent De-Asphalting (SSDA) unit to upgrade existing asphalt facilities.
  - Supported engineering evaluation and conceptual development for a 100 m<sup>3</sup>/h (15 MBD) unit processing residue and slop wax from the Vacuum Distillation Column.
  - Contributed to technical documentation, system understanding, and coordination during the proposal stage.
- Luberef – Yanbu Refinery (Detailed Design Phase):
  - Participated in detailed design for replacement of an existing

disulfide stainless steel pipeline with an 8" cement-lined carbon steel line.

- Ensured proper routing and constructability by designing the new line to run parallel to the existing system during shutdown conditions.
- Coordinated with site and engineering teams to ensure smooth execution and minimal operational disruption.

**Job title** : Senior Piping Engineer / Engineering Coordinator – Aramco Projects

**Job Description** : 

- Provided engineering support and site technical follow-up for major industrial projects in accordance with Saudi Aramco engineering standards, specifications, and project requirements.
- Supported proposal development, detailed engineering, and technical reviews, ensuring compliance with applicable codes, constructability requirements, and integration with existing facilities.
- Coordinated with multidisciplinary engineering teams, construction personnel, and clients to resolve technical issues and support successful project execution.
- Prepared and reviewed engineering deliverables, technical queries, and design documentation to support project execution and client approval processes.

**Dates** : From Jul. 2017 till Jul. 2019

**Employer** : Saudi Services for Electro Mechanic Works (SSEM), Alkhobar – KSA (EPC)

**Projects** : 

- Yanbu Distribution Hub – Yanbu, Saudi Arabia – LSTK Project / Budget: ~SAR 1 billion – Role: Lead Piping Engineer – Designer: Jacobs Zate (GS+):
  - Greenfield refined products storage and distribution terminal serving Yanbu industrial zone.
  - Brownfield three terminal point, Facility collects and distributes petroleum products (Gasoline 91/95, Diesel, Kerosene) from major refineries including YANBU, YASREF, and SAMREF.
  - System designed to deliver products via pipeline network to Jeddah and Central Region.
  - Ensured full compliance with Aramco engineering standards and pipeline integrity requirements.
  - Provided technical leadership for piping scope, coordination between engineering contractor and site execution teams.
  - Insure using suitable software for engineering like PDMS / E3D / CAESAR II.
- Water Handling Debottlenecking – South Ghawar Area, Saudi Arabia – LSTK Project / Budget: ~SAR 1 billion – Role: Engineering Manager – Designer: WOOD Al-Hejailan (GS+):
  - Brownfield expansion and upgrade of water handling facilities in South Ghawar area (Haradh GOSPs 1 & 2, Hawiyah GOSPs 2 & 4).
  - Project aimed to increase formation water handling capacity to support Saudi Aramco crude oil production targets and Maximum Sustained Capacity (MSC).
  - Managed engineering coordination between technical teams to ensure seamless integration.

**Job title** : Lead Piping Engineer / Engineering Manager – EPC / LSTK Projects

- Job Description** :
  - Follow-up for Engineering Contractors & Site Technical Support.
  - Responsible for engineering coordination, contractor follow-up, and site technical support for major Saudi Aramco projects executed under LSTK contracts with international engineering consultants.
- Dates** : From Jan. 2016 till Jun. 2017
- Employer** : Orascom Construction, Cairo – Egypt (Contracting)
- Project** : New Capital CCGT Power Plant – 4.8GW, Consortium Project / Budget: ~€2 billion, Partners: Orascom Construction / Siemens Energy:
- Mega Combined Cycle Gas Turbine (CCGT) power plant forming part of Egypt's New Administrative Capital energy infrastructure.
  - Project executed under consortium agreement between Orascom Construction and Siemens Energy.
  - Siemen's scope covered engineering and supply of main power generation equipment, including technical supervision of erection activities.
  - Orascom Construction scope included engineering and execution of Balance of Plant (BOP) systems and full site construction works.
  - Served as key engineering interface between contractor disciplines and construction teams to ensure design compliance, constructability, and smooth field execution.
  - Coordinated engineering deliverables, technical clarifications, and site support activities across multiple disciplines.
- Job title** : Technical Office Manager (Site Eng. Mgr.)
- Job Description** :
  - Engineering Interface Manager / Focal Point Engineer (EPC Coordination) for Power Generation Projects – Egypt.
  - Acted as the main engineering focal point between contractor engineering teams and construction execution for large-scale power generation projects, ensuring alignment between design, procurement, and site activities.
- Dates** : From Jan. 2009 till Dec. 2015
- Employer** : Power Generation and Engineering Services Company (PGESCo), Cairo – Egypt (EPCM)
- Projects** :
  - Giza North Combined Cycle Power Plant (CCPP) – Egypt:
    - Capacity: 2250MW.
    - Budget: ~\$1.7 billion.
    - One of Egypt's largest combined cycle power generation projects.
    - Lead engineering coordination for multidisciplinary design activities across mechanical, piping, and plant layout disciplines.
    - Supported integration between engineering deliverables and site execution requirements.
  - Abu Qir Thermal Power Plant – Egypt:
    - Capacity: 1300MW (2x650MW units).
    - Budget: ~\$1.55 billion.
    - Supervised engineering activities for large-scale thermal power generation facility.
    - Coordinated design interfaces and technical reviews across multiple disciplines to ensure constructability and compliance with project specifications.

- Wassit Power Plant – Iraq:
    - Location: ~120 km southeast of Baghdad.
    - Large-scale thermal power generation project.
    - Participated in engineering support and coordination activities for international EPC execution environment.
    - Contributed to technical follow-up and design alignment during project execution phase.
- Job title** : Engineering Group Supervisor (Plant piping & layout)
- Job Description** :
  - Lead Engineer / Engineering Team Leader – Power Generation Projects for Ministry of Electricity Projects.
  - Lead multidisciplinary engineering teams for major power generation projects under the Ministry of Electricity and Renewable Energy (Egypt), covering Combined Cycle, Thermal Power Plants, and simple cycle in Egypt.
  - Responsible for engineering coordination, technical reviews, and interface management across multiple large-scale EPC projects, ensuring compliance with international standards and project requirements.
- Dates** : From Feb. 2008 till Dec. 2008
- Employer** : SETE Energy, Jeddah – KSA (Contracting)
- Project** : King Abdullah University of Science and Technology (KAUST) – SWRO Desalination Plant – Capacity: 52,000 m<sup>3</sup>/day – Potable Water Production
- Job title** : Piping Design Engineer
- Job Description** :
  - Engineering / Piping & Site Coordination Engineer Water & Desalination Projects – Saudi Arabia.
  - Participated in engineering and site coordination for a large-scale Seawater Reverse Osmosis (SWRO) desalination plant supplying potable water to KAUST facilities.
  - Supported implementation of seawater intake system consisting of dual 1100 mm diameter pipelines drawing raw seawater from open sea intake structure.
  - Contributed to integration of seawater pumping system with capacity of 2330 m<sup>3</sup>/hr. at 6.0 bar, ensuring stable piping support.
  - Ensure adherence the implementation with design of desalination plant piping and piping support.
- Dates** : From Jan. 2006 till Jan. 2008
- Employer** : AL-HEJAILAN CONSULTANTS, Al-Khobar – KSA (Engineering)
- Projects** :
  - Aramco Projects, KSA:
    - Flowlines – Uthmaniyah Fields to GOSP Facilities: Participated in engineering and routing design of flowline systems transporting crude from Uthmaniyah wells to Gas Oil Separation Plants (GOSP), ensuring compliance with Aramco pipeline standards and operational reliability.
    - VGO Loading / Unloading Facilities – Pump Station #1 & #4: Supported engineering design and implementation of Vacuum Gas Oil (VGO) transfer systems including loading and unloading facilities at key pump stations.
    - Abqaiq Power Plant – Boiler Condensate & Feed Water Systems:

Contributed to piping engineering for boiler condensate and feed water systems supporting power generation utilities at Abqaiq facilities.

- Aramco Communities – Underground Utility Upgrades: Supported upgrade and rehabilitation of underground utility piping systems within Aramco residential communities, ensuring compliance with infrastructure standards and service continuity.
- Non-Aramco Projects, KSA:
  - Saline Water Conversion Corporation (SWCC) – Al Khafji Chlorination Plant: Participated in engineering design and support for new chlorination systems for seawater treatment facilities, ensuring safe and efficient water disinfection processes.
  - Jubail Industrial City – Gas & Nitrogen Pipeline Systems: Delivered engineering design for nitrogen and gaseous pipeline (GAN) systems serving petrochemical industries including SABIC and Tasnee. Supported routing, design verification, and system integration within industrial infrastructure networks.

**Job title** : Piping Design Engineer

**Job Description** :   
 • Senior Piping / Pipeline Engineer – EPC / Site Engineering Support.  
 • Executed engineering design and site coordination for major infrastructure and oil & gas projects across the Kingdom of Saudi Arabia, including Saudi Aramco facilities, utilities, and industrial clients.

**Dates** : From Jan. 1999 till Dec. 2005

**Employer** : Petrojet, Cairo – Egypt

**Projects** :   
 • 30" Pipeline – El Sharara / Mellitah – Libya:
 

- Delivered detailed engineering design for fire protection systems associated with intermediate pump station, pipeline launcher, and receiver stations.
- Supported safety-critical design integration for large-diameter pipeline infrastructure ensuring compliance with international fire safety and pipeline protection standards.
- Contributed to engineering coordination for high-pressure hydrocarbon transport systems across cross-border facilities.

• Fire Fighting Systems – Oil & Energy Facilities:  
 Led and supported detailed design of fire protection systems across multiple strategic oil, gas and power installations:

- General Petroleum Company (GPC Egypt) – Ras Gharib Oil Storage.
- Firefighting system design for 18 large crude oil storage tanks.
- North Cairo Power Station – Fuel Storage Area.
- Fire protection systems for fuel oil tank farm supporting power generation operations.
- Suez LNG / LPG Facilities.
- Fire suppression systems for: LNG plant (Dumyat), LPG plant (Suez).
- Floating Roof Tank Systems.
- Fire protection design for floating roof storage tanks ensuring vapor fire risk mitigation.
- International Pipe Industry Company.
- Industrial fire protection system design for manufacturing facility.



- Airport Fueling Systems – Sharm El-Sheikh International Airport:  
Designed complete aviation fuel handling and distribution system including:
  - Truck-to-tank fuel transfer piping networks.
  - Storage tank systems and filtration units.
  - Bulk metering systems for aircraft fueling operations.
  - Calibration tanks and test rigs for fuel quality assurance.
  - Direct aircraft fueling pipeline network.
  - Ensured compliance with aviation fuel safety standards and operational reliability requirements.

**Job title** : Piping Design Engineer

**Job Description** : Worked as Piping Design Engineer, supporting major national oil & gas infrastructure projects under the Ministry of Petroleum and Mineral Resources (Egypt), covering pipeline systems, fire protection networks, and critical energy facilities in Egypt.

**Field of experience** :

- Engineering Manager / Onshore Piping Consultant / Oil & Gas & Power:
  - Extensive expertise in piping and pipeline design, plant layout, and technical office management, with strong involvement in EPC, EPCM, and LSTK project environments. Recognized as a certified Piping Consultant (Petroleum, Steam, and Liquid systems) by the Egyptian Engineers Syndicate.
  - Demonstrated leadership in delivering complex projects in Egypt and Saudi Arabia, including major projects aligned with Saudi Aramco standards. Experienced in both home office engineering and site execution support, ensuring seamless integration between design and construction phases.
- Key strengths include:
  - Engineering Management & Team Leadership.
  - Onshore piping & Pipeline Design Authority.
  - Plant Layout & Multidisciplinary Coordination.
  - Project Delivery (Cost, Schedule, Quality).
  - Technical Office & Site Engineering Management.
- Freelance Engineering Consultant & Lecturer / Piping & Project Management:
  - Providing specialized consulting services in piping engineering, project management, and technical training across Oil & Gas, Power, Desalination and general industrial.
  - Delivered high-value engineering support including piping stress analysis, multidisciplinary design coordination, and technical office advisory for complex industrial projects. Contributed to strategic engineering solutions for projects in Saudi Arabia, including a gravity-driven hydraulic turbine system and piping stress analysis for desalination facilities in Yanbu.
  - In addition, delivers professional lectures and training programs in engineering and business administration, preparing structured technical and academic materials based on extensive industry experience.
- Key Contributions:
  - Follow and review the achievement of piping Stress Analysis for desalination plant projects in Yanbu using CAESAR II.
  - Manage the engineering support for hydraulic turbine (gravity-



- based system) project in Saudi Arabia.
- Project Design Management & Technical Advisory.
- Preparation and delivery of engineering & business training programs.
- Key Achievements:
  - Led and coordinated multidisciplinary engineering teams around 12 to 25 engineers delivering 3D modeling with zero major interdisciplinary clashes at final design phases, ensuring integration across disciplines and alignment with project requirements.
  - Successfully managed engineering team performance through recruitment, training, mentoring, and performance evaluation. Developed and implemented KPI systems for 25 engineers, improving on-time engineering deliverables and supporting the promotion of two junior engineers to senior positions.
  - Established strong relationships with clients and main contractors, achieving timely approval of major engineering deliverables across EPC projects.
  - Supported project controls to maintain engineering milestones, contributing to 95% on-time engineering deliverables and minimizing schedule slippage.
  - Provided technical leadership across design offices and construction sites, leading audits, troubleshooting activities, and engineering investigations to successfully resolve complex technical issues.
  - Acted as Company Representative (Consultant) for technical assurance, supervising contractor activities to ensure full compliance with contract requirements and quality standards.
  - Participated in more than 3 HAZOP workshops, resolving critical design actions prior to construction and supporting safe project execution.
  - Led the preparation and review of engineering deliverables for mega industrial projects valued at up to USD 1 billion and EUR 2 billion, ensuring full compliance with ASME, API and client specifications.
  - Successfully managed multicultural engineering teams and diverse stakeholders, fostering effective communication, collaboration, and alignment throughout the project lifecycle.
  - Effectively managed multicultural teams and stakeholder environments, ensuring smooth communication and collaboration across diverse project teams.