

Holds a B. Sc. in Mechanical Power Engineering and has about 20 years experience in Planning and Design of Water & Wastewater Plants, Treatment Plants, Pumping Stations and Potable Water Networks. Preparation of Hydraulic Hammer Analysis and Design of Force Mains for many projects in Egypt & Gulf Countries. Has extensive experience in software applications such as Water CAD, Bentley Water Hammer, Arc GIS Water Gems & AutoCAD. Extensive knowledge in Codes and Standards; NFPA, ASTM, AWWA, HI, BS, ASHRE, ASMI, ISO.

PERSONAL DATA

Nationality : Egyptian
Gender : Female

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2000

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Visio
: MS Project
: AutoCAD
: Bentley HAMMER and WATERCAD

TRAINING COURSES AND CERTIFICATIONS

: Project Planning and Schedule.
: Resource management.
: BIM Diploma (2017).
: Primavera 6.3 (2015).
: Technical Writing Report Course in 2013.
: Water & Gas Fire Fighting Systems Course (2011).
: Bentley HAMMER V8i and WATERCAD V8i Training Course (2007).
: Training in Enviro Civic Consulting Engineering in 1999-2000.
: Training in Egypt Airlines in Cairo Airport in 1998.
: Training in Delta Iron and Cast Iron Industries in 1997.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2018 till now
Employer : [EGYPTROL](http://www.egyptrol.com)
Projects :

- Process systems "P&ID and hydraulic calculation" for MANTRAC - CHP biogas genset 10MW Alexandria
- Process systems "P&ID and hydraulic calculation" for MANTRAC - 14.5MW genset, Lagos - Nigeria
- GE substation 400KV SS at Tobrouk - Libya
- EPC gas compression plant at Badr petroleum site "oil & gas site"
- GE power substation at Karbala pre-tender

Job title : Mechanical Section Head

Dates : From 2011 till May 2018
Employer : K & A Consultants (Khatib & Alami) – Egypt
Projects :

- Qatar North Area as part of Public Work Authority (PWA)'s General Engineering Consultancy (GEC), for Local Roads and Drainage Projects – Contract 2 which includes the following projects:
 - QN001: Roads and Infrastructures in Al-Shamal.
 - QN021: Development of Roads & Infrastructure in Ain Snan Village.
 - QN066: Development of Roads & Infrastructures in Al Khor.
 - QN070: Development of Roads & Infrastructures in Al Leighwairya Village & Access Road.
 - QN075: Development of Roads & Infrastructures in Madiant Al Kabaan.
 - QN077: Development of Roads & Infrastructures in Al Nasrinya Village and Access Road.
 - Description: Design of Foul Sewage Pump Stations, Treated Sewage Effluent Pump Stations, Surface Water Pump Stations and their Attenuation Tanks.
- KSA:
 - Tathlith Wells - Water treatment Plant (WTP of average capacity = 100,000 m³/day using RO System and Pressurized Sand Filters).
 - Targes Dam - Water Treatment Plant (WTP of average capacity = 80,000 m³/day using ACTI-Flow System and Carbon Filter).
 - TANDAHA Dam - Water Treatment Plant (WTP of average capacity of = 40,000 m³/day with Floating Intake and using Flocculation Unit).
 - Qahma, Birk, Bark & (Zahban-Asser) - Government Waste Water Treatment Plants (WWTP of average capacity = 10,000 m³/day for each using Extended Aeration and Pressurized Sand Filter).
 - ISKAN – Projects Infrastructures for Different Areas Wet Utilities (WWTP for small capacity with MBR System and All Wet Utilities Pump Stations).
 - Design of Pump and Lift Stations for (Taief, Asser, Tabook, Madina Monawra, Qassim, Burida, Hail, Jazan, Riyadh, Abha and Makkah):
 - ❖ Multi types of Water and Sewage Pump Stations (Wet-Dry / Wet Installation) with capacities ranges (50 l/s - 2000 l/s). In

- addition; Site Layout Arrangement Design.
- ❖ Rehabilitation of pump and lift stations for Potable Water, Storm Water and Waste Water.
- ❖ Wells Pump Stations for more than 40 wells.
- Design of Elevated Tanks & Ground Reservoirs:
 - ❖ Concrete Elevated Tanks with volumes range (100 m³ - 1000 m³).
 - ❖ Concrete Ground Reservoirs with volumes range (100 m³ - 125,000 m³).
 - ❖ Steel Ground Reservoirs with volumes range (5000 m³ - 200,000 m³).
 - ❖ Pre-stressed.
- Mechanical Technical Review for Al Madina Al Monwara Sewage Treatment Plant & Tabook Sewage Treatment Plant:
 - ❖ Al Madina Al Monwara Sewage Treatment Plant with capacity = 200,000 m³/day.
 - ❖ Tabook Sewage Treatment Plant with capacity = 90,000 m³/day.
- Iraq:
 - Baqouba Waste Water Treatment Plants Phase II (WWTP of average capacity = 32,000 m³/day using Extended Aeration Type).
 - Nine Varieties Pump & Lift Stations (Water and Sewage Pump Stations).
- Dubai - UAE: Dubai Land (Irrigation Pump Stations with capacities 500,000 m³/day & 320,000 m³/day).
- Oman: Quiryyat Water Pump Station (Water Pump Station with capacity = 3000 l/s).

Job title : Mechanical Design Manager

Job Description :

- Prepare Design Criteria, Methodology and Work Plan Report.
- Prepare the Concept, Preliminary and Detail Mechanical Design Reports, Mechanical Drawings, Calculations, Specs and bill of Quantities and Surge Analysis Reports.

Dates : From 2000 till 2011

Employer : Great Cairo Water Company – Egypt

Projects :

- El Maadi Treatment Plant (Water Distribution for New Pump Stations in El Maadi Treatment Plant with its Two (2) Phases with capacity = 200,000 m³/day)
- Al Fostat Treatment Plant (Water Distribution for the New Stage in Al Fostat Treatment Plant with capacity 200,000 m³/day)
- Al Fostat Pump Station & Ain El Sera Boosters (Mechanical Studies for the existing situation of the Pump Stations, Booster & Elevated Tanks to increase their efficiency)
- Potable Water Network and Raw Water Network for Sarayat El Maadi (Design of New Networks)
- Transmission Pipe Line for the North West of Swiss Gulf Zone (Create the Hydraulic Model)
- Potable Water Master Plan Network for Cairo (Create the Hydraulic Model)

Job title : Hydraulic Analysis Engineer - General Master Plan Department

- Job Description** :
 - Complete design of Potable Water & Raw Water Networks along with Mechanical Design for Pump Stations, Tanks & Reservoirs.
 - Create Hydraulic models using Water CAD, Water Hammer.
 - Evaluate Existing Potable Water & Raw Water Networks.
 - Prepare complete studies for upgrading the Existing Treatment Plants with a Detailed Mechanical Design for each element.
 - Review design and proposals receiving from any other consultants.
- Dates** : From 2010 till 2011 (part time)
- Employer** : Senior Consulting Engineering – Egypt
- Projects** :
 - Nubaria Treatment Plant upgrading (WWTP of average capacity = 1,000,000 m³/day)
 - El-Suof & Mahmodia pump stations (Mechanical Design of the Pump Stations)
 - Al-Arish Swage Pump Station & Gardaha Pump Station for Irrigation (Mechanical Design of the Pump Stations)
- Job title** : Senior Mechanical Engineer
- Job Description** : Prepare Mechanical Drawings, Calculations, Specs and bill of Quantities.
- Dates** : From 2009 till 2010 (part time)
- Employer** : AL DAR Consulting Engineering – Egypt
- Projects** :
 - Al Obour Water Treatment Plant (Mechanical Design of each element in the treatment plant)
 - Telbana & Engak Waste Water Treatment Plant (WWTP of average capacity = 500,000 m³/day)
 - El Tawteen Sewage Pump Station (Mechanical Design of the Pump Station and Hammer Study)
 - New Sohag Sewage Pump Station (Mechanical Design of the Pump Station and Hammer Study)
- Job title** : Senior Mechanical Engineer
- Job Description** : Prepare Mechanical Drawings, Calculations, Specs and bill of Quantities.
- Field of experience** :
 - Preparation of Detailed Mechanical Design of Water, Sewerage, Drainage, Irrigation, Combined Pump Stations and Lift Stations with Good Value Engineering.
 - Working as Specialist in Surge Analysis & Water Hammer Studies for Water Networks.
 - Preparation of Mechanical Design for Reservoirs, Elevated Tanks, Steel Tanks and Pre-stressed Tanks.
 - Preparation of Control Philosophy and P&ID (Process and Instrumentation Diagram) for each Mechanical Design.
 - Preparation of Detailed Mechanical Design for Waste Water Treatment Plant, Water Treatment Plant (MBR, Extended aeration, MBBR & MABR).
 - Preparation of Tender Documents including Mechanical Specifications and Bills of Quantities in both Arabic and English.
 - Preparation of Detailed Design Reports, Work Plan, and Time Schedules.
 - Review Mechanical Submittals for projects under Design Stage and

under Construction Stage.

- Relevant Skills:
 - Preparation of Mechanical & Hydraulic Detailed Design & Review.
 - Value engineering reports.
 - Resources Management.
 - Project Coordination.
 - Effective Communication.
 - Quality Assurance.
 - Cost Control.
 - Time Control.
 - Project Reporting.
 - Encourage and Develop Junior Engineers.
 - Promote a Culture of Collaborative Working within the Design Team.