

Holds a B. Sc. in Chemical Engineering and has over 18 years experience in the operation, process design and modeling analysis of water and wastewater treatment plants (particularly in the Middle East region) as well as technical support and field experience acquired from the work with the major contracting companies in Egypt & Gulf Area.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 03/08/1981
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Chemical Engineering, El-Minia University, 2003
: Studying for Pre-Master degree in Environmental studies, Ain Shams University, 2022-2023

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Certified as a "Value methodology associate" from SAVE international.
: Course- FM1, Value methodology fundamentals-1.
: "Urban Water Infrastructures Planning & Design".
: "Wastewater collection, treatment and disposal".
: "MBBR system Design" – Veolia.
: "Introduction to Treatment of Urban Sewage" - Delft University of technology - Netherlands.
: "Water/Industrial Wastewater Analysis" - Chemical Association - Egypt.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jul. 2022 till now
Employer : VATEC WABAG - Egypt
Job title : Lead Process Design Engineer
Job Description :

- Technical Support in the bidding and engineering phases.
- Coordinate and Participate in the technical meetings with Austrian office process team, clients, supplier.
- Review tender documents of the project.
- Generate/review the related process design documents.
- Process and Equipment selection.
- Train and guide the junior level process engineers.

Dates : From Oct. 2015 till Jul. 2022
Employer : VEOLIA Egypt
Projects :

- 10th of Ramadan City IWWTP, 410,000 CMD acrylic preliminary treatment plus 180,000 CMD Biological treatment System (Tender), Client: CAPW (Construction authority for potable water and wastewater), Consultant: Enviro-civic
- NOOR CITY WWTP-20,000- 80,000 CMD (4 PHASES), conventional activated sludge process (Tender), Client: Talat Mostafa Group
- Zagloul Al Bahry - STP, 15,000 m3/d – Oxidation ditch - Client: Holding Company for water & Wastewater – Consultant: Chemonics Egypt
- Al Rahmania - 34,500 m3/d – Nile-Drinking water (contaminated with Ammonia), MBBR - coagulation / flocculation / sedimentation / rapid sand filtration - Client: NOPWASD - Consultant: Egyptian Group
- Al Howamdia - 70,000 m3/d – Nile-Drinking water - coagulation / flocculation / sedimentation / rapid sand filtration - Client: Ministry of Housing - Consultant: Misr Consultant
- Marasi - 10,000 + 20,000 m3/d - Remineralization for RO Drinking water- (CO2 + Calcite systems) - Client: Emmar Misr - Consultant: WETCO (Amr Saoudi)
- Motobas - STP, 15,000 m3/d – Oxidation ditch - Client: Holding Company for water & Wastewater – Consultant: Chemonics Egypt
- Sinbellaween- 33,000 m3/d each - STP-IFAS
- Nawasa & Robaa & Shabrawesh - 15,000 m3/d each - STP-IFAS – Consultant: Mott Mac Donald
- Henkel-IWWTP, 200 m3/d - MBBR – Client: Henkel Egypt
- Johnson & Johnson – IWWTP (Pharma), 200 m3/d – Extended aeration – Client: J&J
- Kinlest 150 m3/d - IFAS (Beverage) - Client: Kinlest
- Eva pharma, IWWTP (Pharma), 200 m3/d – Conventional Activated sludge - Client: Eva pharma
- Horas pharma, IWWTP (Pharma), 200 m3/d – Conventional Activated sludge - Client: Horas pharma
- Mars-IWWTP (Confectionary), 32 m3/d – Client: Mars Egypt
- Bayti – IWWTP - Food & Beverage, 3200 CMD, MBBR-IFAS system - Client: Bayti, Consultant: Howeedy

Job title : Senior Process Design Engineer

Job Description : Responsible for the process design activities of the water & wastewater treatment plant, including:

- Technical Support in the bidding and engineering phases.
- Review tender documents of the project.
- Process and Equipment selection.
- Generate the related process design documents:
 - The piping and instrumentation diagram, P&ID.
 - The process flow diagram, PFD and Mass balance.
 - The Hydraulic flow diagram, HFD.
 - The Plant layout.
 - The Process design calculations.
 - The Hydraulic calculations.
 - The Pump head calculations.
 - Calculations of Chemicals consumption.
 - The operation and control philosophy.
 - Request for equipment quotations, RFQ.
- Review the suppliers' equipment quotations.
- Support the commissioning team by technical info when needed.
- Communicate with O&M team to get the REX for each project.
- Communicate with the R&D team in France for discussing new technologies and design validation.

Dates : From Oct. 2014 till Sep. 2015

Employer : NALCO SAUDI CO.

Job title : Senior Plant Process Engineer

Job Description :

- Plant Supervising.
- Performing the lab analysis for Aluminum effluent, Oily wastewater treatment plant.
- Quality control of the treated effluent through adjusting best operating parameters
- Reporting to the area manage.

Dates : From Apr. 2010 till Oct. 2014

Employer : METITO OVERSEAS QATAR

Projects :

- Ras Laffan oily wastewater treatment plant, capacity 7800 m³/d
- Bahrain petroleum company oily waste water treatment plant, MBR technology, 1000 m³/d, Bahrain
- Fish market treatment plant at Abo Hamour, MBR technology, capacity 86.4 m³/d, Qatar
- Pearl Qatar sewage treatment plant, capacity 5000m³/d
- Al Khor sewage pumping station, with capacity 51840 m³/d, Qatar
- Ain Khalid sewage treatment plant, capacity 16700 m³/d, Qatar

Job title : Process Design Engineer / O&M / Commissioning

Job Description :

- Aware of designing different systems of WWTP (MBBR / Extended Aeration-Clarifier / SBR / MBR / including DAF system).
- Doing the process calculations for WTP& WWTP (Drinking / Sewage / Oily / Confectionary / Dairy / pharmaceuticals / Fish markets).
- Doing the hydraulic calculation.
- Cost saving by well-designed innovative equipment and methods.

- Making the projection of reverse osmosis water plants.
- Estimate the equipment's and pipe sizing.
- Releasing the P&ID, HFD, PFD.
- Preparing the CAUSE & EFFECT chart.
- Preparing the plant Process description and control philosophy.
- Assisting in the pre-bid proposal and reviewing the tender.
- Reviewing the equipment quotations to release the P. O's.
- Discuss and find solutions for HAZOP.

Dates : From Aug. 2008 till Apr. 2010
Employer : RIDGEWOOD EGYPT
Job Description :

- O&M Engineer for many RO plants (Remyvera and Golden beach).
- Reporting to the higher management.

Dates : From Jul. 2004 till Jan. 2007
Employer : EGYPTIAN ARMED FORCE
Job title : Chemical Lab Engineer
Job Description :

- Performing Chemical test.
- Reporting to the higher management.