

Holds a B. Sc. in Mechanical Engineering and has over 5 years experience working in design and proposal.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 07/10/1993  
Gender : Male  
Residence : Sheraton, Cairo

## EDUCATION

: B. Sc. in Mechanical Engineering, Ain Shams University, 2016

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Training at Egypt Air Company (Maintenance & Ground Services) (Jul. 2014 & Sep. 2015):
  - Identifying some main systems in Airplane (Hydraulic, Electrical...etc.).
  - 1 week workshop in the Diesel Engines maintenance.
- : Training at National Authority for military production (Aug. 2012):
  - Identifying various manufacturing processes for refrigerators, heaters and ovens.
  - Identifying various needed metal parts for ovens and natural gas heaters.
- : Plumbing course, Engineers House Center (Apr. 2018):
  - Learnt the design process of a water supply system (Tanks, pumps head and flow rate, fixture units and sizing calculations).
  - Learnt the design of a drainage system (Drainage fixtures, Fixtures traps, Flow in pipes and stacks).
  - Trained to draw toilet detail and riser diagram.
- : Fire Fighting course, Engineers House Center (Mar. 2018):
  - Identified the different firefighting systems and their components, types of hazards and differences between manual and automatic systems.

- Learnt how to design a fire fighting system (Fire cabinets and Sprinklers distribution, piping, Gases calculations, Hydraulic calculations using Elite and applied that on a hospital project.
- : HVAC course, ICG Center (Aug. 2017):
- Identified the various types of HVAC systems.
  - Learnt and trained to calculate the cooling and heating load of a space using HAP, Duct sizing.
  - Selection of AHU and diffusers.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jul. 2022 till now  
**Employer** : Veolia Water Technologies, Riyadh - Saudi Arabia  
**Job title** : Proposals Engineer  
**Job Description** :

- Reviewing the project specifications & prepare the design accordingly.
- Prepare the RFQs for all project equipment.
- Construct a detailed P&ID Diagram & Project layout for the plant.
- Prepare the project cost sheet & discuss it with sales team.
- Review & discuss project process design with engineering team.

**Dates** : From Aug. 2018 till Jul. 2022  
**Employer** : Veolia Water Technologies Egypt L.L.C  
**Projects** :

- El-Rahmaneya WTP 400 L/s (MBBR – Multiflo – Filtraflo)
- West Qena WTP 400 L/s Extendable to 2000 L/s (Filtraflo - Clariflocculator)
- Port Said SWRO 20,000 m3/day (RO desalination Plant)
- Abo Tesht WTP Extention work 600 L/s (Califlocculator, Mblock filters)
- Kafr Abo Naser STP 9000 m3/d (BAS System)
- Tamyra Extension Works 80,000 m3/day (Tube settler, Gravity filters)
- Arab El-Madabegh STP Extention work from 70,000 m3/day to 105,000 m3/day (HYBASS System)
- Dayrout STP 20,000 Extendable to 30,000 m3/Day (Extended aeration)

**Job title** : Mechanical Design Engineer  
**Job Description** :

- Reviewing the process calculations for the project.
- Preparing the Hydraulic calculation & Hydraulic Profile for the project.
- Preparing civil guide & Piping Arrangement drawings for all plant buildings.
- Construct a detailed P&ID Diagram for the plant.
- Calculating all necessary parameters for mechanical units (Pumps, Blowers, Compressors) and piping calculations (Sizing, Losses, Velocity).
- Preparing Lists and bill of material for purchasing (Valve List, Penstock List, Cranes List).
- Preparing Fabrication Drawings for puddle pipes, Interconnecting and Internal Piping BOM.
- Reviewing Structural & Architectural Drawings for different plant Buildings and discuss comments.
- Following up with site team during construction, Commissioning and start-up phases.

- Contacting Suppliers for technical clarifications or Discussing Comments.

**Dates** : From Feb. 2018 till Jul. 2018  
**Employer** : French University in Egypt  
**Job title** : Teaching Assistant  
**Job Description** :

- Discuss assigned duties with professors, prepare lessons material and deliver tutorials for students.
- Assessment and marking students' assignments and quizzes.

**Dates** : From May 2017 till Jan. 2018  
**Employer** : Pharma Star for advanced technology  
**Job title** : Production & Installation Engineer  
**Job Description** :

- Responsible for the production process of various medical devices (Laminar Air Flow Cabinets, Biosafety Cabinets, Pass Box, Water Bath).
- Installation of devices in the clean areas.