

Holds B. Sc. and M. Sc. in Chemistry and has more than 8 years experience in the water treatment field with strong mechanical background gained from work in different types of water treatment plants and strong background and knowledge in analytical chemistry and water analysis gained from working in the laboratory and master academic researches.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 29/01/1990  
Gender : Male  
Marital Status : Married  
Residence : Suez

## **EDUCATION**

: B. Sc. in Chemistry, Suez Canal University, 2010  
: Premaster of Analytical Chemistry, Suez University, 2011  
: Master degree, Suez University, 2017

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point), Internet

## **TRAINING COURSES AND CERTIFICATIONS**

: Introduction course in steam power stations (Nov./Dec. 2012).  
: Water Treatment course (Dec. 2012).  
: Measurement and control devices (from Dec. 2011 till Jan. 2012).  
: A course in Prevention devices (Jan. 2012).  
: Cathodic Production Systems (Jan. 2013).  
: Training course in Prevention and fire fighting.  
: Closed cooling and boiler treatment (May/Jun. 2015).  
: An introduction in separator systems.  
: PMP fundamental Course.  
: Introduction in operation of gas power stations.  
: International Driving Computer License (ICDL).

- : TOEFL (Test of English as a Foreign Language) 520 score.
- : Creative thinking skills course in (CIQAP) project.
- : Safety course from National Institute of Occupational safety and health in Egypt (NIOSH).
- : Personal Efficiency program.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2015 till now
- Project** : Attaka Gas Power Station (4x160MW)
- Job title** : Operation Chemist
- Job Description** :
- Follow up the chemistry and environmental section constructions during the period of the project.
  - Reporting technical comments for the systems constructed by the vendor.
  - Follow up the demi water system and closed cooling system.
  - Follow up the Light fuel oil treatment system.
  - Follow the chemical specification of water quality for demi water and closed cooling water system.
  - Follow up transformer oil, turbine oil and lubricating oil chemical analysis.
  - Follow up the chemical injection in water closed cooling system.
  - Follow up the environmental section.

- Dates** : From Jan. 2014 till Jan. 2015
- Employer** : Powertek Energy Sdn Bhd
- Project** : Suez Gulf Power Station (2x342MW)
- Job title** : Field Chemist
- Job Description** :
- Follow up and performing analysis for chemical specifications and environmental analysis of the inlet and outlet sea water samples.
  - Follow up the ppm activates and chemical specifications of water and steam cycle in the online analyzers and performing chemical analysis for water and steam cycle.
  - Follow up and performing analysis for chemical specifications of the closed cooling system.
  - Follow up and performing analysis for chemical specifications of hydraulic oil.
  - Calibration and maintenance of online analyzer "PH, conductivity meter, silica analyzer, chloride analyzer, hydrazine analyzer, oxygen sensor and sodium analyzer".
  - Operation and regeneration of Demineralized water plant.
  - Operate the seawater desalination plant "MED".
  - Operation and acid cleaning for sodium hypochlorite production system.
  - Follow the dosing systems for water and steam cycle, closed cooling system and desalination plant.
  - Prepare daily and monthly chemical reports for chemical analysis, chemical consumption, water production and maintenance report.
  - Follow maintenance for defects in the chemistry department.

**Dates** : From Sep. 2011 till Dec. 2013  
**Project** : Attaka Power Station  
**Job title** : Operation Chemist  
**Job Description** :

- Adjust water quality of boiler water cycle and monitor chemicals injection along the cycle.
- Operation of wastewater treatment system and controlling of outlet rejected water to sea according to the Egyptian law of disposal discharging.
- Follow maintenance for defects in the chemistry department.
- Monitoring of sewage treatment unit and controlling water quality.
- Start-up and shutdown of water treatment plant.
- Start-up and shutdown of sod. Hypo chlorite generation units and controlling its chock and continuous injection.
- Operation and regeneration of polisher units for condensates.
- Chemical analysis of all samples in lab, and taking corrective action.
- R.O unit operation.

**Dates** : From Nov. 2010 till Sep. 2011  
**Employer** : Al-Salomi for frit and Glaze Company  
**Job title** : QC Chemist  
**Job Description** :

- Check the quality for the main product in the factory.
- Physical and chemical tests on frit product.
- Check the chemical properties of the row materials.

Publication:

Publish in peer preview journal "Chemical Engineering Journal", A. Shahat, H.M.A. Hassan, H.M.E. Azzazy, M. Hosni, M.R. Awual, Novel nanoconjugate materials for effective arsenic (V) and phosphate capturing in aqueous media, Chem. Eng. J. 331 (2018) 54–63.