

Holds a B. Sc. in Chemistry and is a qualified Chemist and Engineering Expert in Research, Operation, experimental analysis and lab testing work. Has strong background in based on over 12 years of extensive research and practical work.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Giza, Cairo

## EDUCATION

: B. Sc. in Chemistry, Al-Azhar University, 2003  
: Studying Material Sciences and Nano Technology Diploma, 2019

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

: General requirements for the competence of testing & calibration laboratories ISO 17025.  
: Oil and graze analysis, Chemical Laboratory Centre, Egypt.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2016 till now  
**Employer** : Upper Egypt Electricity Production Company  
**Project** : Water Plant  
**Job title** : Senior Chemist, Operator  
**Job Description** :

- Skilled technical work in sample collection, analysis, and treatment of power plant water, steam and process water systems.
- Skilled technical work in environmental sample collection, analysis and reporting.
- Oversaw each treatment unit process in the plant.
- Dealing with a variable water treatment system design; Clarification-

Demineralization and UF-R.O System.

- Measured and adjusted chemical feed rates.
- Retained tank levels and flow rates to meet water.
- Performed minor mechanical work and routine equipment maintenance.
- Retrieved and performed required tests for quality and integrity on product samples.
- Adjusted pumping systems, chemical feeders, auxiliary equipment, control systems storage tank levels and Pump stations indicators.
- Monitored flows, pressures, chemical feeds levels and water quality indicators.
- Conducted safety inspections and followed safety rules and procedures.
- Handled preventive and corrective maintenance to maintain proper equipment safety and functionality.

- Dates** : From Oct. 2010 till Aug. 2016
- Employer** : King Fahd University for Petroleum and Minerals
- Job title** : Laboratory Instructor
- Job Description** :
- Research tasks:
    - Performed IC analysis of Enhanced Oil Recovery (ROE) core flooding effluent for Aramco Company.
    - Synthesized Metal Organic frame work Material (MOF) for CO<sub>2</sub> capture application for Aramco and King AbdulAziz City for Science and Technology KACST.
    - Performed Treatment of water contaminated with MTBE by Photo TiO<sub>2</sub> System and Carbon Nanotubes (CNTs) using photo reactor system.
    - Performed Photo oxidation of MTBE & Benzene in the presence of hydrogen peroxide.
    - Studied the removal of MTBE and Benzene from contaminated groundwater by advanced oxidation for KACST using GC-MS system.
    - Studied the Removal of Poly Aromatic Hydrocarbons for research thesis using GC-MS system.
    - Studied the removal of Phenol from water by carbon Nano tubes material using spectrophotometer system and GC-FID system.
    - Studied the Remediation of MTBE through landfill wheels by advanced oxidation processes for KACST using GC-MS system.
  - Laboratory responsibilities:
    - Performed EPA and standard methods for All Analytical methods.
    - Operated and maintained analytical instruments such as GC-MS, GC-FID, ICP-MS, Hg Analyzer, IC, spectro photometer, and TOC.
    - Steered process development experiments in the lab and supported scale up processes.
    - Developed products and technologies that met product performance, quality and timing requirements.
    - Operated wet methods and instrumentation analysis.
    - Set up standards for sampling analysis and data interpretation using effluent analysis.
    - Calibrated and troubleshot laboratory instruments.
    - Interpreted test results and developed nonstandard tests.

- Coordinate educational training programs.
- Preparation of the technical reports.
- Following the student projects and facilitates technical and logistical support.
- Analyzing the different quotations and purchasing the laboratory requirements.
- Organized lab test solutions, compounds and reagents.

**Dates** : From Sep. 2006 till Oct. 2010

**Employer** : Upper Egypt Electricity Production Company

**Project** : Water Plant

**Job title** : Chemist, Operator

**Job Description** :

- Skilled technical work in sample collection, analysis, and treatment of power plant water, steam and process water systems.
- Skilled technical work in environmental sample collection, analysis and reporting.
- Oversaw each treatment unit process in the plant.
- Dealing with a variable water treatment system design; Clarification-Demineralization and UF-R.O System.
- Measured and adjusted chemical feed rates.
- Retained tank levels and flow rates to meet water.
- Performed minor mechanical work and routine equipment maintenance.
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- Monitored flows, pressures, chemical feeds levels and water quality indicators.
- Conducted safety inspections and followed safety rules and procedures.
- Handled preventive and corrective maintenance to maintain proper equipment safety and functionality.

**Skills:**

- Operation Skills:
  - Equipment Maintenance - Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
  - Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
  - Mathematics - Using mathematics to solve problems.
- Laboratory Administrative Skills:
  - Manage all lab aspects including setting safety rules, storing and arranging lab equipment and chemicals, ordering (purchasing) lab supplies (chemicals, glassware, instruments, ...etc.) and systems maintenance.
  - Preparation of technical reports.
  - Develop and implement quality programs relating to calibration, laboratory safety and equipment maintenance.

- Analyze the different quotations of tenders and purchasing requests.
- Laboratory Technical Skills:
  - Analytical skills, Independence, Time management. Meticulous attention to detail.
- Research Skills:
  - Sample collections, Sample preparation, Statistical and Graphical Analysis of Data, Ability to maintain quality, safety and/or infection control standards, Attention to details, Data Collection and Data interpretation.