

**102895-MEC-45DEM-V-E-2010**  
**Senior Mechanical Engineer**

Holds a B. Sc. in Production Engineering and has about 11 years hands-on experience working as Mechanical Design / Piping Engineer and in maintenance management.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 25/12/1988  
Gender : Male  
Marital Status : Married  
Residence : Suez

## EDUCATION

: B. Sc. in Production Engineering, Alexandria University, 2010

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Fair  
Spanish : Basics

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: Solid Works  
: AutoCAD 2D  
: AutoDesk Plant 3D  
: Revit Structural  
: Primavera  
: Caesar II Piping analysis

## TRAINING COURSES AND CERTIFICATIONS

: Training in Buy-tech responsible purchaser at Saint Gobain School of management (Feb. 2021).  
: Training in MTG School of Management at Copenhagen, Denmark (Sep. 2019).  
: Training in Reliability Yellow Belt for Break Down Reduction Rout - Solving EFSSO (Oct. 2017).  
: Autodesk Revit Structural at Egyptian Syndicate of Engineers (Dec. 2015).

- : Planing and Secluding Professional (PSP) at American University (AUC) (Dec. 2014).
- : Stress Analysis by Caesar II at American University (AUC) (Dec. 2013).
- : Design & Construction of Piping Systems at American University (AUC) (Nov. 2013).
- : Process Piping B 31.3 at American University (AUC) (Jun. 2013).
- : Rotating Machines at Egyptian Syndicate of Engineers (Apr. 2012).
- : Material Selections at Egyptian Syndicate of Engineers (Mar. 2012).
- : Internal training in SGGE (EHS, WCM, 6S).
- : Summer trainings at:
  - Kuwait National Petrol Co. (KNPC) in rotating equipment (Jul./Aug. 2009).
  - Kuwait National Petrol Co. (KNPC) in Main Workshop (Jul./Aug. 2008).
  - Kuwait National Petrol Co. (KNPC) in for petrol refinery processes (Jul./Aug. 2007).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2018 till now
- Employer** : Saint Gobain Glass Egypt, Suez
- Job title** : Senior Mechanical Engineer
- Job Description** :
- Supervise and lead all maintenance processes and operations and Allocating resources and time effectively.
  - Analyzing problems and coming up with designs to solve them.
  - Identify department KPI & Dash Board: Losses per Production, Daily Percentage for PPM, PPM Tracking, Monthly Cost Vs Budget, Team involvement and contribution.
  - Involved for analyzing plant failures & carrying out Root Cause Analysis (RCA).
  - Track Consumables and Materials, Cost of Spare parts, PR, PO, Monthly service.
  - Involved in assisting the development of reliability-based maintenance strategy, based on Preventive, Predictive & Corrective maintenance.
  - Involved in World Class Manufacturing (WCM) project to improve plant availability & sustain asset reliability by using the tools of Lean Maintenance, TPM, 5S and RCM.
  - CAPEX and Capital Projects: Prepare Feasibility study for Capital project with payback calculation, Identify the Critical bath for project completion and follow up construction on site.
  - Create Skill matrix for, Train team to overcome skill gaps, measure team involvement, Maintain 5S standard and visual Management.
  - Industry 4.0: Contribute in digital Transformation by using Automatic Check list and Reporting Tools, and enhance the in site experience using the Microsoft HoloLens and Real ware. Support in industry 4.0 Application (SAP mobile Application, QR codes, 3D Printer).
- Dates** : From 2015 till 2018
- Employer** : Saint Gobain Glass Egypt, Suez
- Job title** : Fabrication & Design Engineer

**Job Description** : 

- Follow up Capital project in terms of Monthly cost vs budget, follow up suppliers and Schedule.
- Reverse Engineer machines and spare parts, to reduce Cost.
- Fabricate Spare Parts locally to reduce Cost.
- Modify machines to adapt production requirements.
- Arrange Periodic meeting with Department and Suppliers.

**Dates** : From 2010 till 2015

**Employer** : Egyptian Fertilizers Company (E.F.C.)

**Job title** : Mechanical Design & Piping Engineer

**Job Description** : 

- Maintenance and repair for rotating equipment's, Pumps, Screw conveyors, Belts, conveyors, Blowers, and Valves.
- Maintenance for Static equipment's, piping, Furnace and Float equipment.
- Arranging Coding stock and none stock materials for the warehouse with (CMMS) system.
- Mechanical services and fabricate or external fabrication for spare parts for all equipment.
- Provide Complete Design of piping arrangement layout Use Computer aided design & Drafting Programs (PDMS & Plant 3D).
- Isometrics drawing with 3D CAD programs.
- Provide Stress analysis for pipelines with Caesar II.

#### **Achievements:**

- 19 & 15 mm Project (Sep. 2021) (20 Million EGP Investment):
  - Increase Line product range to produce 19 & 15 mm thickness glass.
  - Buy studding the modification required in equipment.
  - Bench mark with other plants in the group.
  - Identify budget for the required.
  - Follow up suppliers and Apply the modifications remotely with Covid-19 Constrains and Travel Ban with Industry 4.0 Application.
  - Install modification on production line during the process to minimize the impact on production results.
  - Reverse Engineering and In-house Fabrication for Equipment's to minimize the Cost of Capex.
- Saint Gobain Mirror Plant Project (Aug. 2019) (150 Million EGP Investment):
  - Participate in Mirror Plant Technical Study, and Chinese Supplier Control with third party inspection and FAT Test.
  - Recruit teams for new plant.
  - Construct the New SAP system for equipment and PPM for Machine.
  - Follow up Snag list with Suppliers.

#### **Technical Skills:**

- SAP - ERP (PM-Module).
- ISO internal auditor.
- 5S auditor.
- Lean Manufacturing System.

- Ansys finite element.
- 3D Printing.