

Holds a B. Sc. in Mechatronics Engineering and has over 10 years hands-on experience working in plant design field.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 04/06/1981  
Gender : Male  
Marital Status : Married  
Residence : Nasr City, Cairo

## EDUCATION

: B. Sc. in Mechatronics Engineering, Assiut University, 2006  
: Higher Diploma (Mechanics Department), Galal Fahmy Advanced Technical School, 2001

## LANGUAGES

Arabic : Native Language  
English : Fluent

## COMPUTER SKILLS

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

## TRAINING COURSES AND CERTIFICATIONS

: Started in PRMG (Project Management) Diploma (still in progress), American University in Cairo (AUC) (2016):

- PRMG 020 course: Management of Project Resources.
- PRMG 080 course: Project Bids and Contracts.

: PMP Preparation course, APM Academy (2016).

: Plant design & modelling by AVEVA E3D "AVEVA Everything 3D", PGESCo (2015).

: E3D Foundations, Equipment modelling, Pipework, Draw user, MDS user, E3D Reporting, PGESCo (2015).

: System Administration, Project modeling General Administration, Piping cats & Specs, Draw Admin, ADP Admin, MDS Admin, Lexicon, Isodraft Administration, PGESCo (2015).

: ASME B31.1, PGESCo (2013).

: Layout consideration for the thermal power plant, PGESCo (2013).

- : Standard piping material line class summary, PGESCO (2013).
- : Structure steel design, PGESCO (2013).
- : Intergraph SmartPlant 3D, SP3D (Piping design, Equipment, Smart Sketch and SmartPlant Review (SPR)), PGESCO (2012).
- : Professional Piping Designer (PPD), Level III, Society of Piping Engineers and Designers (SPED) (2012).
- : Piping Stress Analysis by CAESAR II, Kharafi National (2011).
- : Plant Layout design course, CB&I Lummus (2010).
- : Pipe racks considerations and arrangements, CB&I Lummus (2010).
- : Plant design & modeling by AVEVA PDMS "Plant Design Management System": Piping design, Equipment, Steel Works( Basic, Walls & Floors, ASL Modeller), Cable Tray, Draft, Draft Admin, ISO draft, ISO draft Admin, Piping Catalogue and Specifications and Admin modules), EVRMaC (2009).
- : Piping Stress Analysis by CAEpipe, EVRMaC (2009).
- : Design and Construction of Piping Systems course, AUC (2008).
- : AutoCAD 2D & 3D and MicroStation 2D (2002).
- : Summer trainings at:
  - Daghsh Co. for Tents & Steel Structures (Jul. 2003).
  - Cairo Oil Refining Company (Aug. 2003).
  - Kiriazi for Engineering Industrials Co. (Jul./Aug. 2004).
  - Daghsh Co. for Tents & Steel Structures (from Jul. till Sep. 2005).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2016 till now
- Employer** : PGESCO
- Project** : Lamouda Power Plant, 500MW Gas Turbine Project in Libya
- Job title** : AVEVA CAD Design Supervisor
- Job Description** :
- Responsible about establishment and follow up the implementation of the new AVEVA E3D platform at PGESCO.
  - Managing, Supervising and Leading the day to day activities inside the E3D admin team and report to higher management
  - Submit the future work plan and arrange / handle the pilot project preparations and activities.
  - Preparing the progress reports to meet the project time schedule.
  - Follow up the different activities with E3D admin team i.e. the creation of Piping catalogues and specifications and create the different company standard templates and reports as UG composite drawing, Piping GAs, Piping sketches, Piping Isometrics, MTO report.
  - Provide AVEVA E3D training courses for users (when needed).

- Dates** : From Nov. 2012 till Mar. 2016
- Employer** : PGESCO
- Projects** :
- Baiji Power Plant, 1014MW Gas Turbine Project in Iraq
  - New Assiut Power Plan, 1000MW Gas Turbine Project
  - West Damietta Power Plan II, 500MW Gas Turbine Project
  - New Capital Power Plant, 4800MW Combined Cycle Project
  - Burullus Power Plant, 4800MW Combined Cycle Project

- Job title** : Plant Design Group Leader
- Job Description** :
- Prepare piping routing design by SmartPlant 3D (SP3D) and Coordinate it with Piping supports and pipe stress analysis teams.
  - Development UG piping composite drawings, Plot Plans and GA's by SP3D Smart Sketch and MicroStation.
  - Extracting AG/UG piping isometrics.
  - Create required equipment at SP 3D-Model.
  - Extracting Material Take-Off "MTOs" reports.
  - Prepare piping study and tank nozzle orientation sketches and follow-up the implementation with tank sub-contractor.
  - Coordinate UG piping utility systems and release periodic interference check report.
  - Handling weekly 3D-model review meetings with other disciplines (electric, civil, mechanical, etc.) to achieving the best physical design for the plant.
  - Check and review issued mechanical specification, P&ID for every system.
  - Prepare tenders layout and piping arrangement according to tender and piping specification.
  - Assigned as PD Responsible Engineer (RE) for Water Treatment plant, Fire Fighting works, Fuel Gas works and Field erected Water/HFO/LFO tanks packages to check and Review Sub-Contractors/Suppliers submittal documents and coordinate it with other plant Sub-Contractors/Vendors and other different disciplines.
- Dates** : From Jun. 2011 till Nov. 2012
- Employer** : Kharafi National
- Projects** :
- West Damietta Power Plant, 500MW Gas Turbine Project
  - El-Shabab Power Plant, 1000MW Gas Turbine Project
  - Az-Zour South Power Plant in Kuwait (Tender preparation)
  - Sabyia Power Plant in Kuwait (Tender preparation)
- Job title** : Piping Designer & PDMS Administrator
- Job Description** :
- Prepare piping routing design by PDMS and support selection.
  - Submission piping isometrics for every system AG/UG.
  - Create all equipment and steel structure required at plant 3D-Model.
  - Prepare tank nozzle orientation.
  - Development piping arrangement, Plot Plans and GA's by draft module and AutoCAD.
  - Coordinate all UG mechanical utility systems and electrical duct bank and release interference check report.
  - Coordination with other disciplines (electric, civil, mechanical, etc.) to achieving the best physical design for the plant.
  - Extracting Material Take-Off "MTOs" reports, line and valve list.
  - Handle 3D-Model reviews with client personnel in attendance and be able to convincingly answer client queries.
  - Coordinate with piping construction team to solve the construction problems.
  - Prepare tenders layout and piping arrangement according to tender and piping specification.
  - Handling all PDMS Administration activities (New projects creation,

- create the teams, PDMS users, DB, MDB and set the access control for different users).
- Create project Backing Sheets and Overlays, Label Libraries and any other required by Draft Admin and Iso Draft Admin modules.
- Create piping Catalogue and Specifications for project.

**Dates** : From Jun. 2010 till May 2011  
**Employer** : CB&I Lummus  
**Projects** :

- Cuddalore Refinery Project – A00 / A01 in Cuddalore, India
- Cabinda Gas Plant in Cabinda, Angola (As-Built Project)
- Revamp of LPG Facilities: Feed for Gas Network and compression facilities / Compressor station (CS - 9) Project in Bahrain (Tender preparation)

**Job title** : Piping Design Engineer & PDMS Administrator  
**Job Description** :

- Prepare the plant piping routing design according to PIDs by PDMS.
- Generate the piping isometrics.
- Prepare the piping arrangement and GA's drawings by draft module.
- Extracting Material Take-Off "MTOs" reports, line and valve list.
- Handling PDMS Administration activities at Global projects (create the teams, PDMS users, DB, MDB and set the access control for different users).

**Dates** : From May 2009 till May 2010  
**Employer** : EVRMaC - AVEVA's PDMS Representative in Egypt  
**Projects** :

- Secondment to UHDE Engineering Egypt (UEE) to Generate a general arrangement drawings (GA's) by PDMS For construction Unit 0200, 0220, 0230 at EAGRIUM Ammonia/Urea Project
- Nubaria III Power Station Project, 750MW Combined Cycle Project
- Cairo West Power Station Project, 2x350MW Thermal Power Plant
- El-Tebbin Power Station Project, 2x350MW Thermal Power Plant
- Sidi Krir Power Station Project, 750MW Combined Cycle Project
- El-Atf Power Station Project, 750MW Combined Cycle Project

**Job title** : Piping Designer & Stress Analyst & PDMS Administrator  
**Job Description** :

- Prepare the plant piping routing design according to PIDs by PDMS.
- Critical piping stress analysis reports and supports selection.
- Special supports design.
- Material Take-Off "MTOs" reports, submission ISOs and as built drawing.
- Coordinate with PGESCo and Toshiba for any missing data and discrepancy.
- Prepare the support index and support list and all other required reports.
- Handling all PDMS Administration activities (New projects creation, create the teams, PDMS users, DB, MDB and set the access control for different users)
- Create project Backing Sheets and Overlays, Label Libraries and any other required by Draft Admin module.

**Dates** : From Jan. 2007 till Apr. 2009  
**Employer** : Warner Lewis Egypt for designing and installing of Airports fuel piping, fuel depots and pipe line design

- Projects** :
- Cairo International Airport (Fuel hydrant system project for TB3 (Terminal Building 3))
  - Taba Airport refueling station (Taba International Airport project)
  - Al-Gurayat Airport project in Jeddah, Saudi Arabia
  - Al-Taif Airport project in Al-Taif, Saudi Arabia
  - Abuja International Airport project in Abuja, Nigeria
- Job title** : Technical Office Engineer (Piping)
- Job Description** :
- Reviewing the contract, the Project technical specifications and the bill of Quantity.
  - Preparing the progress payment invoices (Interim Payment Certificate) and discuss with the employer's quantity surveyor.
  - Discovering the contract variations and writing the notice for intention to claims and making the cost analyses of any CVN (Certified Variation Notice).
  - Submission of the designs and workshop drawings and the related engineering documents and communicate with the consultant if any inquiry.
  - Making the material take-off quantities.
  - Follow up the implementation of all activities procedures during Construction.
  - Making the work and material inspection request.
  - Constructing the material control and store keeping system for the company.
  - Follow up the time schedule target activities and preparing it for Commissioning & All Project phase.
  - Prepare the daily report and sent it to the main contractor.
  - Coordinate between the project different parties & contractors to assure that no contradiction will occur during construction.
- Further experiences** :
- Private work experience:
- Warner Lewis works:
    - Hurghada International Airport – Jet fuel hydrant network project.
    - Rehabilitation and Expansion of Cairo International Airport (TB-2) – Jet fuel hydrant network project.
    - ABHA Regional Airport, Saudi Arabia (Tender technical study preparation).
    - Main duties:
      - Basic and detailing design by PDMS and AutoCAD 2D/3D.
      - Piping general arrangement drawings.
      - UG/AG Piping isometrics.
      - Pipe support selection and special support design (if needed).
      - UG valve chambers mechanical arrangement and details drawings.
      - Material Take-Off (MTO).
      - Line, Valve and Equipment lists.
  - Kharafi National works:
    - Large scale Facility (LSF) Project, Kuwait (Tender preparation).
    - Main duties:
      - Preliminary design for Piping, equipment and steel structure by PDMS 3D-Model for bidding.
      - Preliminary pipe supports selection and submission piping

- supports MTO.
- Pipes and piping components Material Take-Off (MTO).
- Farm-Frites works:
  - As-Built drawing for boilers building area.
  - AutoCAD 2D course Instructor for 5 Engineers.