

Holds a B. Sc. in Mechanical Power Engineering and has over 16 years hands-on experience, mainly working in design of piping systems, layouts and pipeline.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/08/1979
Gender : Male
Marital Status : Married
Residence : Shorouk City, Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2004

LANGUAGES

Arabic : Native Language
English : Very Good
French : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD, Microstation
: 3D Tools: SP3D, 3DM, PDMS, AUTOPLANT, CADWORX
: Analysis/Calc: CAESER II & PIPENET

TRAINING COURSES AND CERTIFICATIONS

: Fire Protection Systems at ENPPI HR Section.
: ASME 31.3, 31.4 & 31.8 introduction/exploring (AUC).
: Advanced Course in Stress Analysis using CAESER (AUC).
: Piping Material Selection and Piping Codes (BECHTEL).
: Valves Types and Valve Selection (BECHTEL).
: C++ Programming Language (Ain Shams University).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2020 till now
Employer : INTRO-ADVANSYS

Job title : Mechanical Technical Manager
Job Description :

- Leading to build and implement projects by 3D Modelling platforms: SP3D and PDMS.
- Using modelling platform SP3D (build catalogues and spec, modelling all types of discipline commodities, extracting miscellaneous types of deliverables like orthographic dwg, isometric dwg, G.A.... up to MTO.
- Manage all technical issues related to suppliers and contractors on the assigned project(s) including the receipt of detailed designs and their delivery in both oil/gas plants and MEP projects.
- Coordinate all mechanical engineering duties between contractors and consultant, supplier, and owner.
- Prepare / check / issuance all piping material specs, equipment, valves, in both tender and execution stages.
- Design, select, all aspects of mechanical components, equipment, and machinery.
- Involved in fabrication, application, installation, and/or repair of plant mechanical components.
- Follow variety of the field's concepts, practices, procedures, standards & codes.
- Rely on extensive experience and judgment to plan and accomplish goals.
- Typically reports to technical director.
- Coaching others involved in distribution, maintenance, construction of plant equipment, piping and infrastructure.

Dates : From Aug. 2018 till Dec. 2019
Employer : Consolidated Contractors Co. (CCC)
Job title : Mechanical Engineering Supervisor & Team Leader
Job Description :

- Prepare and execute complete piping material specs, piping modelling, editing Bentley database spec library, prepare valve stock code.
- Establish CSPC (CCC Independent engineering office) core design practices and design guides/criteria library for power plants piping/equipment.

Dates : From Feb. 2018 till Jul. 2018
Employer : PGESCO
Project : Cairo West Supercritical Power Station
Job title : Sr. Mechanical Construction Engineer
Job Description : Prepare all required supervision activities for contractors works at site as follow:

- MRR (Material Receiving Report) review/acceptance.
- Punch lists preparation.
- In/out site permissions approval for material and tools...etc.
- Work permits.
- Back-fix/finish/accept all punch list items with all contractors.
- Mutual coordination between engineering office and site contractors.
- Turn over packages review and acceptance (T.O.P).
- Execute all inspection requests (IR) and walk-down for all mechanical/piping systems for all contractors.
- Coordination between contractors to solve daily issues/provide technical

solutions/sequencing the activities/E-mails and in-meetings.

Dates : From Aug. 2017 till Feb. 2018
Employer : PGESCO
Project : West Damietta - converting existing simple cycle to combined cycle
Job title : Sr. Mechanical Construction Engineer
Job Description : Prepare all required supervision activities for contractors works at site as follow:

- MRR (Material Receiving Report) review/acceptance-
- Punch lists preparation.
- In/out site permissions approval for material and tools...etc.
- Work permits.
- Back-fix/finish/accept all punch list items with all contractors.
- Mutual coordination between engineering office and site contractors.
- Turn over packages review and acceptance (T.O.P).
- Execute all inspection requests (IR) and walk-down for all mechanical/piping systems for all contractors.
- Coordination between contractors to solve daily issues/provide technical solutions/sequencing the activities/E-mails and in-meetings.

Dates : From Apr. 2014 till Jul. 2017
Employer : PGESCO
Projects : West Damietta / El-Shabab – converting existing simple cycle to combined cycle
Job title : Senior Plant Design Engineer
Job Description :

- Plant Design and Construction Supervision.
- General Arrangement Physical Designed DWG.
- U/G composite DWG.
- Isometric DWG.
- Equipment Modeling & Piping Routing.
- Vendor Drawing Review/Markup.
- Construction Follow up.

Dates : From Jul. 2012 till Mar. 2014
Employer : PGESCO
Project : Baiji Power Plant, Iraq
Job title : Senior Plant Design Engineer
Job Description :

- Plant Design and Construction Supervision.
- General Arrangement Physical Designed DWG.
- U/G composite DWG.
- Isometric DWG.
- Equipment Modeling & Piping Routing.
- Vendor Drawing Review/Markup.
- Construction Follow up.

Dates : From Aug. 2009 till Jun. 2012
Employer : PGESCO

Project : EL AIN EL SOKHNA SUPERCRITICAL THERMAL POWER PLANT - UNITS 1 & 2 (2x650MW GAS/OIL FIRED UNITS)
Job title : Plant Design Engineer III
Job Description :

- Plant Design and Construction Supervision.
- General Arrangement Physical Designed DWG.
- U/G composite DWG.
- Yard Tank Design (Mazout, Solar, Demi Water, ...).
- Isometric DWG.
- Equipment Modeling & Piping Routing.
- Vendor Drawing Review/Markup.
- Construction Follow up.

Dates : From Aug. 2008 till Jul. 2009
Employer : PGESCO
Project : Cairo West Thermal Power Station 2x350MW
Job title : Plant Design Engineer II
Job Description :

- Plant Design and Construction Supervision.
- General Arrangement Physical Designed DWG.
- U/G composite DWG.
- Isometric DWG.
- Equipment Modeling & Piping Routing.
- Vendor Drawing Review/Markup.
- Construction Follow up.

Dates : From Feb. 2008 till Jul. 2008
Employer : Petrojet
Project : ALHAMED PUMP STATION AND P/L'S
Job title : Mechanical Design Engineer
Job Description :

- Piping System for Oil Processing Facilities and P/L's (C.S and HDPE).
- Complete design containing:
 - Piping general arrangement and isometric for pump stations and processing areas.
 - Stress Analysis for the Piping System and P/L.
 - Specification for all Material.
 - Detailed dwg.

Dates : From Dec. 2006 till Aug. 2007
Employer : Petrojet
Project : Oil Separator, Suez
Job title : Mechanical Design Engineer
Job Description :

- Piping System for Oil Processing Facilities.
- Complete design containing:
 - Piping general arrangement and isometric.
 - Stress Analysis for the Piping System.
 - Specification for all Material.
 - Detailed dwg.

Dates : From Apr. 2007 till Oct. 2007
Employer : Petrojet
Project : Water Supply System Feeding St. Katherine
Job title : Mechanical Design Engineer
Job Description :

- Engineering, Procurement & Construction of 100 Km, 12" WATER P/L.
- Complete design containing:
 - Hydraulic analysis.
 - Stress Analysis for Thrust Forces On Bends.
 - Planimetry and Profile Dwg.
 - Suppliers documents study and review.
 - Specification for all Materials.
 - Detailed drawings for Valve Rooms.

Dates : From Apr. 2007 till Aug. 2007
Employer : Petrojet
Project : Tarek Gas Plant Extension, Western Desert
Job title : Mechanical Design Engineer
Job Description :

- Fire fighting system for gas plant.
- Complete design containing:
 - P&ID.
 - Suppliers documents study and review.
 - Hydraulic analysis.
 - Piping general arrangement and isometric.
 - Firefighting philosophy.
 - Specification for all Material and equipment.
 - GRE water network and isometric.

Dates : From Dec. 2006 till Aug. 2007
Employer : Petrojet
Project : LPG Sphere, Assiut
Job title : Mechanical Design Engineer
Job Description :

- Piping System for LPG Spheres.
- Complete design containing:
 - Piping general arrangement and isometric.
 - Stress Analysis for Piping Supports.
 - Firefighting system.
 - Specification for all Material and relief devices.

Dates : From Mar. 2006 till Jan. 2007
Employer : Petrojet
Project : Fresh water supply system for fertilizer plant, Damietta
Job title : Mechanical Design Engineer
Job Description : P/L basic design.
Complete design package containing:

- P&ID.
- Hydraulic analysis.

- PLANIMETRY AND PROFILE DWG.
- Specification for all Material.
- Basic drawings for crossings and valve rooms.
- Suppliers documents study and review.

Dates : From Mar. 2006 till Jan. 2007
Employer : Petrojet
Project : Obayed facility development, Western Desert
Job title : Mechanical Design Engineer
Job Description : Fire fighting system for gas plant.
 Complete design containing:

- P&ID.
- Hydraulic analysis.
- Stress Analysis for Piping Supports.
- Piping general arrangement and isometric.
- Fire fighting philosophy.
- Specification for all Material and equipment.
- GRE water network and isometric.
- Isometric Dwg. for Pump Room.
- Suppliers documents study and review.

Dates : From Jul. 2005 till Feb. 2006
Employer : ENCO
Project : City Stars – Commercial Center – Smoke fans system, Nasr City, Cairo
Job title : Technical Office Engineer
Job Description :

- Accomplish of shop drawings of smoke fans.
- Shop dwg. of usual fire fighting facilities.
- Shop dwg. of smoke fans system.

Dates : From Dec. 2004 till Jun. 2005
Employer : ALASKA Refrigeration Industries Co.
Project : Casting die design, 10th of Ramadan City
Job title : Technical Office Engineer
Job Description :

- Design, follow up production of external electrical appliances parts.
- Design of die reliable for plastic (ABS) control panel casting.
- Follow up the production processes.

Further experiences :

- Through my work as Design Engineer for PETROJET & PGESCO Companies, I had adequate experience in using and explore ASME 31.4, ASME 31.3 and ASME 31.8, ASME 16.5, API, ASTM, AWWA and NFPA 10, 11, 13, 15, 20, 24.
- Experience Abroad: During St. Katherine P/L project A/M, I made a detailed survey in pipes supplier factory in Turkey through working for PETROJET (Nov. 2007).