

Holds a B. Sc. in Mechanical Power Engineering and has over 27 years' experience in the power generation, Oil & Gas and petrochemical Fields / projects as an Engineering Manager, Project Engineer, Sr. Piping Design & Layout, Onshore Pipeline Instructor, Engineer for EPC projects such as Transportation Pipelines (Oil/Gas), Crude distillation units (CDU) and vapor recovery unit (VRU) Tank Farms, Sour Gas Plants, and Petrochemical Industries for both green and brown field projects. Skilled in Project management, project controlling, reporting and coordination between Engineering, procurements, construction, commissioning and start-up for mega projects.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 16/11/1973
Gender : Male
Marital Status : Married
Residence : 10th of Ramadan City

EDUCATION

: B. Sc. in Mechanical Power Engineering, Benha University, 2007
: Anshas Secondary School (Math Section), Sharkia

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: AutoCAD
: Matlab
: Aft Fathom product modeling in piping systems
: PDMS piping design, Isodraft and Draft
: Caepipe piping stress analysis

TRAINING COURSES AND CERTIFICATIONS

: Elementary Course for Piping System:

- Hardy Cross technique to analyze the pipeline systems.
- AFT Fathom product to analyze piping system.
- The phenomenon of water hammer and protection.
- Pipe drafting and design.

- ASME B31-1-2004 Power piping.
 - P&ID (Piping & Instrument Drawing).
 - GA Drawing (General Arrangement).
 - Pipe Hangers & Supports.
 - PDMS piping design, Draft and Isodraft.
 - Caepipe piping stress analysis.
 - Design Criteria.
- : Caepipe piping stress analysis course.
- : PDMS Courses:
- PDMS piping design.
 - PDMS equipment design.
 - Isodraft.
 - Draft.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2017 till now

Employer : E2R Engineering to Reality – Specialized in VVE Verifying Virtual Engineering

Project : Cairo West Power Station (thermal supercritical)

Job title : Engineering Manager

Job Description : Design access platforms (3D Model, detailed design and stress analysis) of:

- Pumps: (Condensate, circulating and the Feed water pumps BFWP).
- Turbines: (the drive turbine of Feed water pumps BFWP).
- DUCTs: (the BEPT exhaust DUCTs A&B SUPPORTING).
- Tanks: (the Foam guns' monitors of farms of Mazout and solar Tanks).
- Piping: (for many hundreds valves, instrumentations and electric panel's).
- Piping design (3D model, detailed design and stress analysis for many hundreds pipelines).
- As-built design 3D, detailed design and stress analysis for piping, steel structure and ducts.

Dates : From 2015 till 2017

Employer : AMC applicator of painting fireproofing

Project : ARAMCO Pipelines, Tanks, steel structure projects in KSA

Job title : Technical / Projects Manager

Dates : From Oct. 2014 till 2015

Employer : GS E&C (Technical Office)

Project : Egyptian Refinery Plant in Mostorod (Egypt)

Job title : Piping Engineer

Job Description : PDMS spooling & check design.

Dates : From Aug. 2012 till Jun. 2014

Employer : Power System Projects Company (PSP)

Job titles : Pipe Support Design Engineer (mainly) / Piping Design Engineer (as built)

Job Description :

- El Ain El Sokhna Supercritical Thermal Power Plant (2x650MW):
 - Determination locations of pipe supports on ISOS designed by Veolia engineering department according to ASME B31.1 criteria and select suitable steel frames according to PGESCO CPS (Contract Package Specification) or design frames of pipe supports if no std according to AISC (American Institute of Steel Construction) to release new issues revisions of isometrics for construction.
 - Design piping isometrics for some lines missing designed by Veolia as Air Heater area.
 - Issuing As Built of all piping isometrics in site.
 - Acting as the Site T.O Engineer for the remains works after T.O resign.
 - Acting as the Site Material Engineer for the remains works.
 - Acting as the Site Planner for the remains works.
- ABU QIR Power Plant (2x650MW) units 6 & 7:
 - Determination locations of pipe supports on ISOS designed by FPI engineering department according to ASME B31.1 criteria and select suitable steel frames according to PGESCO CPS (Contract Package Specification) or design frames of pipe supports if no std according to AISC (American Institute of Steel Construction) to release new issues revisions of isometrics for construction.

Dates : From Dec. 2011 till Jul. 2012

Employer : UHDE ENGINEERING EGYPT (UEE) Co.

Job title : Piping Design Engineer

Job Description :

- AMMONIUM SULPHATE ALEX FERT Project:
 - I'm working by using PDMS and AutoCAD to do the following:
 - General Arrangement drawings (GA).
 - Steel structure layout.
 - Equipment arrangement.
 - Civil Design Drawing.
 - Pumps Foundations, Formwork and Reinforcement Drawings.
 - Ducts and shoots dimensioning for isometrics.
 - Equipment Fixing Drawings.
 - Special Supports (Design).
 - Nozzle Orientation.
 - Fabrication and installation drawings of transition pieces (Ducts and shoots) between equipments.
- Private work (part time) as Piping Design Engineer.
- BEET SUGER ALEXANDRIA PLANT (SAVOLA) Project:
 - Review piping Isometrics, just check components of line by comparing between isometric of line and P&ID.

Dates : From May 2010 till Jul. 2011

Employer : INITEC Energia SA Co. (Egypt Branch)

Job title : Piping Design Engineer using software PDMS

Job Description :

- MANCHASOL - 1, 2 (Planta Termosolar 2x50MW) – Spain:
 - I worked by using PDMS (Draft module) to release updating of Piping Arrangement drawings (putting the labels of piping and its components valves, instruments and supports) and so putting dimensions and coordinate all of this.
- Cairo West Power Plant (2x350MW Thermal Power Plant):
 - Design (Create small bore AS BUILT) of all piping systems in Cairo West power station to release isometric As built issue Material Take Off (MTO).

Dates : From Apr. 2009 till Apr. 2010

Employer : EVRMAC

Projects :

- Nubaria Power Plant III (750MW Combined Cycle Project)
- El-Tebbin Power Plant (2x350MW Thermal Power Plant)
- Cairo West Power Plant (2x350MW Thermal Power Plant)

Job title : PDMS Piping Designer & Caepipe Stress Analyst

Job Description :

- Design of all piping systems in power plants (simple cycles or combined) buildings per standard code (ASME B31.1_2004), to release isometric issue for approval contains (BOM) and if design ok then release issue for construction.
- Stress analysis of pipeline if temperature of flow during operating more than 204 °C, taking accounts movement of wind and seismic.
- Site visits:
 - I made several visits to the Nubaria Power Plant III for:
 - Study the site.
 - Modify some of the designs for non-completion model.
 - Attend meetings with owner to discuss the reports and designs.

Dates : From Sep. 1998 till Feb. 2009

Employer : ABB

Project : Khalda Projects Maintenance (Egypt)

Job title : Piping Engineer (Sep. 2007 – Feb. 2009)

Job Description :

- Construction of oil, gas and water pipelines from wells to manifolds and at facilities (Khalada, Kahraman, Khepri, Umbaraka and Tarek).
- Installation valves, pumps, tanks and all of equipments.
- Extend a lot of flow lines at fields of Khalada and Sumpetco.
- Piping, fabrication workshops, monitoring carbon steel & SS materials.
- Monitoring all activities starting with material inspection and insure that is identical with the drawings and continuously makes Fit-up inspection on dimensions, materials, sizes, rotation angles, clearance gap, misalignment, numbering & tagging, welding visual inspection and finally hydrostatic test.
- Prepare daily Fit-up and welding reports including inch dia.
- Completed and balance to be fabricated as per planned target and available materials.
- Monitoring all safety activities inside the workshop.
- Controlling shortage & available & issued materials.
- Maintenance of existing piping system.

Dates : From Feb. 1996 till Aug. 2007
Employer : ECCO SPI
Job title : Piping Supervisor
Job Description : "Pressure Vessels" fabrication workshops monitoring Carbon steel and follow all the steps mentioned above but in the construction of pressure piping & vessels. This experience gained through my work at Sites informed me greatly benefit in my Career "Piping Design".

Field of experience :

- Engineering Phase:
 - For Pipelines: Design calculations, Pipeline Design and Route Selection, assessment, Protection, Inspection and Testing of Pipelines, design calculation of Crossings (Road, Highways, Minor Streams, and Utilities), and Integrity and Maintenance of Pipelines.
 - For Piping: preparing layouts, plot plans, Piping Materials Specifications and 3D modeling by PDMS, E3D, and CAESAR II software too. All considering the international codes / standards API, ASME, ANSI, ASTM, piping design reaching to IFC isometrics production, considering piping flexibility, supports requirements.
- Procurement Phase:
 - Preparing MRQs, Study Technical Quotations, Issue the TBEs and reviewing vendor Prints with Engineering Deliverables check interfacing point (Nozzles, dimensions, accessibility). Supporting Construction / commissioning Phase: Preparing procedures of pipeline works such as Right-of-Way.
 - Ditching, Concrete Work, Pipeline fabrication, Pipe Laying, Pipeline Pigging, Pipe Lowering, Pipeline Welding, Main Standards for line pipe manufacturing and testing, Horizontal Directional Drilling (HDD).
 - Preparing Fabrication and Construction packages.
 - Reviewing constructability, Working Package, materials Tracing & Control, Loops, Hydrostatic test Packages.
 - Pre-Commissioning Packages, Punch Lists, troubleshooting and solving construction issues.
 - Instructor of onshore Pipeline training course to cover all life cycle oil and gas pipeline projects (Design Fabrication and construction, inspection, testing, maintenance, Threats to integrity, safety and integrity management).
 - Power generation projects design access platforms (3D Model, detailed design and stress analysis) of:
 - ❖ Pumps: (Condensate, circulating and the Feed water pumps BFWP).
 - ❖ Turbines: (the drive turbine of Feed water pumps BFWP).
 - ❖ DUCTs: (the BEPT exhaust DUCTs A&B SUPPORTING).
 - ❖ Tanks: (the Foam guns' monitors of farms of Mazout and solar Tanks).
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