

Holds a B. Sc. in Mechanical Power Engineering and has over 9 years hands-on experience in piping design, layout arrangement, stress analysis and also in piping construction including fabrication and erection. Has awareness of human and project safety especially live gas works. Familiar with standards and codes like ASME / ANSI, AISC.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 16/11/1973
Gender : Male
Marital Status : Married

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 Oct. 2014 till now
Employer : GS E&C (TO)
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 Feb. 2009 till Mar. 2009
Employer : ECCO SPI
Job title : Piping Engineer
Job Description : Vessels and Equipment:
 Fabrication, workshops monitoring, carbon steel and follow all the steps mentioned above in the construction of piping systems.
 This short period advised me to understand the equipment drawings and its connections so these vessels are important part of piping systems.

Dates : From Sep. 2007 till Feb. 2009
Employer : ABB
Project : Khalda Projects Maintenance (Egypt)
Job title : Piping Engineer
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 (before graduation)
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 :

- Familiar with standards and codes like ASME / ANSI, API.
- Development Plot Plan & Equipment Layout.
- Piping design and stress analysis against P&ID line designation table.
- Generating piping general arrangement.
- Piping bill of materials.
- Pipe support design.
- Pipe supports bill of materials.