

Holds a B. Sc. in Mechanical Power Engineering and has over 14 years professional experience and Industry knowledge on a range of projects covering varying industrial sectors which include Petrochemical Industries, Fertilizing Plants, Power Plants in international companies. Good experience with Pipe supporting and Stress Analysis rules and all related codes. This experience incorporates a range of FEED, EPC, Revamp and Site Upgrade projects, with on-site and off-site roles. Familiar with international standards, codes & recommended practice's like: ASME, ASTM, API, Shell DEP's, etc.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 13/01/1985
Gender : Male
Marital Status : Married
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Benha University, 2007

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Frontpage
: AutoCAD
: Navisworks Review & Simulate

TRAINING COURSES AND CERTIFICATIONS

: AVEVA Diagrams P&ID Designer and Administration at AVEVA.
: AVEVA E3D User and Administration at AVEVA.
: AVEVA E3D User and Administration at AVEVA.
: Global Satellite set up and operation Specification training at Uhde India.
: PML, PML2 (Programmable Macro Language) training at Uhde India.
: PDMS 12 (Admin, Adv. Admin, Draft, Isodraft, Iso-Admin, Paragon) training at AVEVA's Representative Office in Egypt.

- : PDMS 11.6 (Equipment, Piping, Steel, Adv. Steel, Draft, Isodraft, Iso-Admin, Paragon, Specon, Propcon, Lexicon, Global & Admin) training at AVEVA's Representative Office in Egypt.
- : Piping Design, Fabrication and Specification (in-house) training at Uhde Engineering Egypt.
- : Piping stress analysis course (in-house) training at Uhde Engineering Egypt.
- : Stress Analysis Caesar II (in-house) training at Uhde Engineering Egypt.
- : CAEPIPE pipe stress analysis course.
- : Time Management training at New Horizons.
- : Communication Skills at New Horizons.
- : Business writing training at New Horizons.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2020 till Jun. 2022
- Employer** : Abalto LLC (Oman Branch)
- Projects** :
 - Engineering Detail Design for DALEEL Production Station
 - Engineering for Fahud Gas Compression
 - SNCP As-built Project
- Job title** : Lead Piping Engineer and E3D & PDMS Administrator
- Job Description** :
 - Prepare General site Layout and general Arrangements.
 - Participate the P&ID Preparation.
 - Lead piping team to deliver the piping obligations as Piping Design for underground and aboveground piping (analyzed and none analyzed considering the principles of arrangement and specification using the class sheets and design guide and standards (ASME31.1, ASME 31.3, API, ASTM and Shell DEP's etc.).
 - 3D modeling for all equipment and its connections and pipe racks depend on vendor drawings and the equipment orientation using (E3D and PDMS).
 - Material take off (MTO) for all line isometrics with showing the quantity and types of all pipes and fitting clearing the design standard to be used.
 - Participate in project schedule preparation.
 - Preparation for Piping Cost Estimate for all Proposals in Bidding Phase.
 - Preparation for Engineering Contract for design and installation for Bidding and technical evaluation for contractor proposals.
- Dates** : From Aug. 2018 till Feb. 2020
- Employer** : Elsewedy Electric (PSP)
- Projects** :
 - Layyah CCPP in UAE
 - Aweer Simple Power Plant in UAE
- Job title** : Senior Piping Engineer and E3D & PDMS Administrator
- Dates** : From Jul. 2016 till Jul. 2018
- Employer** : Onspec Tawakol Engineering & Contracting
- Projects** :
 - SUMED/Petrojet Ain Sukhna Product Hub (ASPH) LPG Facilities
 - EBGDCO Engineering for New Gas Compressors area
 - Petrosannan Engineering Water Injection Pilot Project

Job title : Senior Piping Engineer and PDMS & E3D Administrator

Job Description :

- Studying the basic engineering packages.
- Preparing/checking detail engineering for natural gas and crude oil piping.
- Preparing/checking detail engineering for tank farms and process area piping.
- Installations follow up and field queries.
- Studying the tender documents, preparing the material take off for the cost estimate and participating in the technical offers' preparation.
- Participating in preparing the contracts with the clients and subcontractors.
- Reviewing and following up subcontractors engineering schedules and progress.
- Managing / Coordinating project engineering activities (piping, equipment, instruments, civil, electrical).
- Coordinating with other project disciplines (procurement, construction, ...etc.).
- Preparing/checking piping plans, piping general arrangement, tie-in schedule, line designation table, piping isometric drawing in accordance with standard & specifications.
- Performed material take-off & piping estimate.

Dates : From Jun. 2015 till Jun. 2016

Employer : PGESCo.

Job title : Senior PDMS & E3D Administrator and Piping Design Engineer

Job Description :

- Establish Instruction, Procedures and Specifications for projects and company standards relating to use of Aveva E3D.
- Project set-up, administration and user support for Aveva E3D.
- Responsible for end-user training of design and administration work of Aveva E3D.
- Interact directly with users and discipline leads and document requirements and special needs related to project designs and needs.
- Troubleshoot and escalate appropriately any technical issues and follow-up for quick resolution.
- Customization of systems and E3D macro writing (PML & PML2).

Dates : From Jun. 2014 till May 2015

Employer : Wood Group - CCC Ltd (Oman Branch)

Project : The Engineering Maintenance contract (EMC) PDO (Petroleum development Oman) oil and gas facilities embraces the three South Concession Areas fields, namely: Marmul, Bahja and Nimr.

Job title : PDMS Administrator and Piping Design Engineer

Job Description :

- Responsible for PDMS Administration for global and local Project.
- Oversee, coordinate and manage the operation, maintenance, setup and configuration of the piping material catalogues and specifications in the PDMS database.
- Monitor content of PDMS piping model to ensure that modeled items are consistent with the current cats & Specs database.
- Customization of systems and PDMS macro writing (PML & PML2).
- Prepare, extract, check Isometric drawings, Piping Arrangement

Drawings, Equipment Arrangement Drawings and Inter-discipline drawings.

- Using MDS for Piping supports design.
- Manage and Coordinate PDMS (Piping / Structural / Electrical / Instrumentation).
- Handle PDMS modelling for equipment, piping, pipe supports, structures, cable trays and HVAC.
- Piping specification creation as per Piping Materials specifications.
- Handle and manage PDMS database.
- Customize PDMS to make it easier for designers to yield higher productivity.
- Troubleshoot all modules of PDMS including Isometric and Drafting.
- Plot plan backing sheet creation.
- Setting of MDS for support design.
- MTO Extraction, clash report, data consistency report and various reports from PDMS.
- Navisworks and review files from PDMS model and animation / walkthrough preparation for management presentation.
- Review routing of piping by using Review Software as per P&IDs.
- Develop various PDMS / CAD applications as per project requirement.
- Provide training on PDMS to new joiners / designers.
- Work with References of necessary standards like: ASME, ASTM, API, Shell DEP's, etc.
- Conduct site visits, field familiarization, measurements and verification.

Dates : From Nov. 2010 till May 2014

Employer : ThyssenKrupp UHDE Engineering Egypt

Projects :

- Cargill Silver Fox Project (in Egypt)
- KPR Caustic Soda Plant Project (in India)
- Bagfas Nitric Acid Plant Project (in Turkey)
- AlexFert Ammonium Sulphate (in Egypt)
- HENKEL Detergents As-Built Project (in Egypt)
- Revamping of Egyptian Fertilizers Company (EFC) Manufactures Granulated Urea (in Egypt)

Job title : PDMS Administrator and Piping Design Engineer

Job Description :

- Create / set-up PDMS model as per company and client procedures with the required databases and user access rights (local and global).
- Maintain and administrate 3D PDMS models for the full engineering life of the project.
- Proficient with the use of PDMS Design, Draft, Cats and Specs Admin in order to support the design team meet its objectives.
- Customization of systems and PDMS macro writing (PML & PML2).
- Assist the Project Engineering Managers in ensuring that the 3D PDMS model is consistent, easy to navigate and clash free.
- Create and set-up PDMS Drawing borders.
- Extract material take-offs from PDMS model for uploading to company material management system.
- Set-up ISODRAFT module for generating isometrics as per company and client standards/procedures. Resolve and trouble shoot isometric errors.

- Set-up and update model review files in NAVISWORKS format at intervals defined by project requirements.
- Responsible for projects' Administration.
- Piping study.
- Piping supports design.
- Tie-in Locations.
- Piping Load data list.
- Design & draft piping special supports.
- Design & draft the equipment's fixation supports.
- Design the arrangement of access platform.
- Using PDMS for piping design and 3-D modeling of piping system, structures, mechanical equipment and electrical cable tray.
- Equipment Arrangement Drawings.
- Nozzles orientation and clips arrangements.
- Steel and Concrete Information Drawings.
- General Piping Arrangement Drawings.
- Review the vendor drawings and update the PDMS Model.
- Piping Site Supervisor & Advisor.

Dates : From Mar. 2008 till Oct. 2010
Employer : EVRMaC – AVEVA's Representative Office in Egypt
Projects :

- Nubaria III Power Station Project
- Sidi Krir Power Station Project
- El-Atf Power Station Project
- Cairo West Power Station Project
- El-Tebbin (I, II) Power Station Project
- E-Agrium Project in Draft and producing General Arrangement using PDMS Consultant of Uhde Engineering Egypt

Job title : PDMS Administrator, PDMS Instructor and Piping Design Engineer
Job Description :

- Piping Design and Producing Isometrics & MTO using PDMS.
- Stress analysis of pipeline using CAEPIPE.
- Responsible for Projects' PDMS Administration.

Dates : From Jul. 2007 till Feb. 2008
Employer : CAJ (Refrigeration & Air Conditioning)
Project : El Horreya Mall
Job title : Maintenance Engineer
Job Description : Responsible for follow up mechanical & air conditioning division.

Skills:

- AVEVA E3D User and Administration.
- Good knowledge in ASME B31.1 Power Piping.
- Good knowledge in MDS, ADP & Micro-station.

Field of experience :

- 14 years in Piping Design Engineering and PDMS & E3D Administrator.
- Industry experience on a range of projects covering varying industrial sectors including Oil & Gas, Fertilizing, Power Plants.
- Experience incorporates a range of engineering projects like EPC, EMC,

FEED, Detail, Revamps and Site Upgrade projects, with Technical Office on-site roles.

- PDMS Administration for global and local Project.
- Customization of systems and PDMS macro writing (PML & PML2).
- Experience in pipe support & stress analysis for non-critical and critical piping.
- Expert in 3D PDMS in Design and Cats & Specs Admin as well (Piping Material Catalogs & Specifications).
- Preparation and checking of all piping design deliverables such as Piping GAs, Nozzle orientations, Isometrics, pipe support drawings, piping MTO, Tie-in schedule, etc.
- Review of vendor drawings for Equipment / Package items.
- Experience in Stress Analysis CAESAR II & CAEPIPE.
- Skilled practitioner of international standards, codes & recommended practice's like: ASME, ASTM, API, Shell DEP's, etc.
- Site survey for selection appropriate tie in location & to collect existing data for detail engineering.
- Model design review using Naviswork manage and Cadworx with client & Internal. Reviewing design changes & resolving quality related problems associated with layout & design.
- Tracking and maintaining the project progress, Line list, Isometric list, etc.
- Test package preparation and coordination.
- Spool generation, Weld map, quantity survey and material takeoff.