

Lead Piping Engineer (Design) / Project Engineering Management

Holds a B. Sc. in Mechanical (Production) Engineering and a Postgraduate Diploma of Management Polices. Has over 17 years experience working in Oil & Gas, Petrochemical and Power Plant projects.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/01/1983
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical (Production) Engineering, Alexandria University, 2004
: Postgraduate Diploma of Management Polices, Alexandria University, 2007

LANGUAGES

Arabic : Native Language
English : Fluent
German : Basics

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: SmartPlant 3D
: CadWorx Plant (Piping)
: Navisworks JetSteam
: AutoPlant (Piping)
: Solid Edge
: Qunatapoint Prism 2D & 3D (Laser Scanning)
: CT C3D interactive
: AutoCAD
: SmartPlant Spoolgen
: SmartPlant Review (SPR)
: SmartPlant Isometrics
: PDMS
: PDS (Piping & Equipment)
: C#.NET
: CAESAR II

TRAINING COURSES AND CERTIFICATIONS

- : Intergraph SmartPlant 3D – Piping and Equipment Reference Data, Arabian Bemco Co., Head Office, Jeddah, Saudi Arabia (Sep. 2014): Contents: SP3D Piping and Equipment Reference Data.
- : Intergraph SmartPlant 3D – Structural Reference Data, Arabian Bemco Co., Head Office, Jeddah, Saudi Arabia (Nov. 2014): Contents: SP3D Piping and Equipment Reference Data.
- : Intergraph SmartPlant 3D – Designer Series, Arabian Bemco Co., Head Office, Jeddah, Saudi Arabia (Nov. 2013): Contents: SP3D design for Piping, Equipment, Structure, cable trays and piping supports 3D modeling.
- : Piping Stress Analysis, Namaa Engineering & Trading, Egypt (Aug. 2009).
- : Intergraph SmartPlant Spoolgen, Arabian Bemco Co., BII, Riyadh, Saudi Arabia (Dec. 2012): Topic: Using software to produce automated piping weldmap drawings, material reports and weld reports.
- : Intergraph SmartPlant Isometric, Arabian Bemco, BII, Riyadh, Saudi Arabia (Jul. 2012): Topic: Using software to draw intelligent piping isometric files.
- : CCT C3D interactive, CCT Office, Beirut, Lebanon (May 2014): Contents: C3D interactive - BIM-based project construction control application for analyzing key construction information, based on actual progress.
- : ISO9001:2008 Internal Auditor, Arabian Bemco Co., BII, Riyadh, Saudi Arabia (Dec. 2012).
- : Introduction to ISO 9001:2008, Arabian Bemco Co., BII, Riyadh, Saudi Arabia (Aug. 2012).
- : Plant Design Management System (PDMS), Thyssenkrupp Uhde, Egypt (2010) (on job training): Course Contents: On job training - General and Piping design modules of PDMS.
- : GRP and GRVE Piping, Aljaber, GTL Project, Qatar (Jan. 2010).
- : Shell / Qatar Petroleum – GTL Project Training Center, Shell Center, Ras Laffan, Qatar (May 2010):
 - Incident and Injury Free Supervisor skills.
 - Productivity Through Planning and Organizing.
 - Hydrogen Sulphide H₂S Awareness.
 - Hand Safety and Manual Handling.
 - Mechanical Joint Integrity.
 - Non-Destructive Examination.
 - Introduction to Flawless Startup Initiation, PTW & TSTI.
 - Quality Control.
- : ASME Diploma – Inspection Academy, Alexandria, Egypt (Sep. 2017):
 - ASME B31.3 (Process Piping).
 - ASME IX (Qualification Standard for Welder Procedure, Welder and Welding Operators).
 - ASME V (Non-Destructive Testing).
 - ASME B31.1 (Power Piping).
 - ASME VIII (Rules for construction of Pressure Vessels).
- : Plant Design System (PDS), WorleyParsons, Egypt (2009): Course Contents: Piping and Equipment design using PDS software.
- : Piping Stress Analysis and CAESAR II, WorleyParsons, Egypt (Sep. 2009).
- : Centrifugal Pumps, WorleyParsons, Egypt (2009).
- : Risk Assessment, WorleyParsons, Egypt (2009).

- : Offshore Pipelines Cathodic Protection (Seminar), WorleyParsons, Egypt (2009).
- : Offshore Pipelines Bottom Stability (Seminar), WorleyParsons, Egypt (2009).
- : ASME (American Society for Mechanical Engineers), AUC (The American University in Cairo), Egypt:
 - Power Piping Design and Fabrication ASME B 31.1 (Feb. 2008).
 - Selection and Operation of Pumps for Petroleum Facilities (Jan. 2008).
 - Design and Fabrication for Pressure Vessels (ASME Section VIII Division 1) (Mar. 2008).
 - Design and Fabrication for Pressure Vessels (ASME Section VIII Division 2) (Feb. 2008).
 - Repair and Alteration of Pressure Vessels (Mar. 2008): Contents: Including API 579 Recommended Practice, NBIC (National Board Inspection Code) and NDT essentials.
- : Fire Fighting (Safety), Gulf of Suez Petroleum GUPCO (Ras Shukir), Egypt (2008).
- : Plant Design Management System (PDMS), Advansys, Egypt (2007).
- : MCAD.NET (Software development course), IBM, Egypt (Jan. 2008): Contents: C#.NET, ASP.NET, SQL, ADO.
- : Quality Management System ISO-9001:2000, Forming Co., Alexandria, Egypt (Jul. 2006): Topic: Understanding of International Standard Requirements for Quality Management System ISO-9001:2000.
- : English for International Communication (New Interchange), LCSE, Alexandria, Egypt (2006) (No. of levels: 13 of 13).
- : AutoCAD, LCSE, Alexandria, Egypt (2006) (No. of levels: 4 of 4).
- : Summer trainings:
 - WEPCO (Western Desert Operating Petroleum Company) - Onshore gas processing Field, Alexandria, Egypt - Department: Workshops and Cranes Department (2001): Topic: Cranes and Mechanical Maintenance.
 - SUMED (The Arab Petroleum Pipelines Co.) - Sidi Krir Terminal, Alexandria, Egypt - Department: Marine units Maintenance Dept. (2002): Topic: Marine Units and Diesel Engine Maintenance.
 - WEPCO (Western Desert Petroleum Company) - Onshore gas processing Field, Alexandria, Egypt - Department: Gas Fields (2003): Topic: Pipe Lines Welding and Non-Destructive Testing.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2019 till May 2021
- Employer** : NESMA & Partners
- Projects** :
 - Abqaiq Water Injection System (AWIS)
 - Tanajib Gas Plant (MTGP14)
- Job title** : Lead Piping Engineer (Design) / Project Engineering Management
- Job Description** :
 - Work Locations:
 - Design Office: Worley Design Office, Khobar, Saudi Arabia.
 - Design Office: SNC-Lavalin Fayez Engineering (SLFE), Khobar, Saudi Arabia.
 - Technical meetings: GIM hosted by TR, Madrid, Spain.
 - Scope of work:
 - Coordinate Engineering activities including design review &

comments closure.

- Represented Engineering Department in GIM meetings in Madrid, Spain.
- Prepare technical packages for vendors bidding.
- Review Design and Engineering documents / Drawings / packages.
- Review Technical Queries, material Requisitions and Technical Bid Evaluations.
- Provide Engineering/Technical support to various departments including Project Management, Procurement, Quality Control and Construction.

Dates : From Jul. 2017 till Feb. 2019
Employer : Saudi Services for Electro Mechanic Works (SSEM) - Location (Design): Jacobs, Khobar Office, Saudi Arabia
Project : North Jeddah Bulk Plant (NJBP) Expansion Project
Job title : Lead Piping Design Engineer
Job Description :

- Review Design and Engineering documents / Drawings / packages.
- Review 3D model and piping design progress.
- Review Technical Queries, material Requisitions and Technical Bid Evaluations.
- Review Tie-ins and Hot tapping requirements.
- Evaluate Tendering proposal against the actual project deliverables.
- Provide Engineering/Technical support to various departments including Project Management, Procurement, Quality Control and Construction.

Dates : From Sep. 2015 till Sep. 2016
Employer : Intecsa / Dragados Gulf Co. - Jubail, Saudi Arabia
Project : POM Project (PolyOxyMethylene Project)
Job title : Mechanical Engineer / Piping Coordinator
Job Description :

- Review Piping related drawings, document and markups including Piping Test Packages folders, P&IDs, Isometric weld maps, ...etc.
- Coordinate piping Test packages activities.
- Report test packages progress done by different departments.

Dates : From Jan. 2012 till Jun. 2015
Employer : Arabian Bemco Co.
Job title : Lead Mechanical Piping Design Engineer
Job Description :

- Locations:
 - Head Office, Jeddah, Saudi Arabia.
 - PP10 CC Power Plant project site, Saudi Arabia.
 - PP12 CC Power Plant project site, Saudi Arabia.
 - BII Fabrication Facility, Riyadh, Saudi Arabia.
 - BSI Fabrication Facility, Jeddah, Saudi Arabia.
- Projects Summary & Scope of work:
 - BII Fabrication Facility: Team Leader of Mechanical Piping engineering team to support pipe fabrication activities.
 - PP10 Power Plant Project (5000MW): Mechanical Piping engineering to support the project mechanical / piping engineering activities.

- PP12 CC Power Plant Project (2175MW): Mechanical Piping engineering to support the project mechanical / piping engineering activities.
- BSI: Mechanical Piping engineering and management to support pipe fabrication activities.

Dates : From Sep. 2010 till Jan. 2012

Employer : Uhde Engineering Egypt (Thyssenkrupp Industrial Solutions) - Head Office, Cairo, Egypt

Projects :

- EFC I & II Revamp Project for Egyptian Fertilizing Company
- Ammonium Sulphate Project for Alex. Fert.

Job title : Piping Engineer

Job Description :

- Senior engineering and design review activities.
- PDMS Design Activities.
- Piping steam heat tracing design.
- Handling and communicating piping related issues with process team.
- Other senior activities.

Dates : From Oct. 2008 till Sep. 2010

Employer : WorleyParsons - Head Office, Cairo, Egypt

Projects :

- Muzhil Field project Development for Petrozenima
- North Shadwan project for Gulf of Suez Petroleum Company Gupco
- Akik Plant Relocation project for Khalda Petroleum Company
- Karama Power Plant project for Qarun Petroleum Company
- Waste Heat Recovery project for ELNG

Job title : Piping Design Engineer

Job Description :

- Preparing and checking various piping documents including Piping layout (GA`s), Piping Isometrics, Equipment arrangement drawings, and Material take off (MTOs).
- Piping and Equipment Design Using PDS and AutoPlant.
- Lead a piping team for a green field offshore platform design project (Muzhil).
- Preparing piping Specifications with referring to Process Industry Practices PIP and other codes.
- Preparing Valves Data Sheets & Piping Material Classes.
- Tanks nozzles orientation design.
- Preparing Cost, Time and Resource sheet (CTR) for piping scope and managing piping deliverables.
- Handling of Project hand-over and Holds Register for piping.

Dates : From Dec. 2009 till May 2010
(during the period of working for WorleyParsons)

Employer : Aljaber & Partners - GTL Project for Qatar Petroleum and Shell, Ras Laffan Industrial City, Qatar

Project : The Pearl Gas to Liquids (GTL). It is the world's largest GTL plant and one of the world's largest, most complex and challenging energy projects ever commissioned.

Job title : Mechanical Piping Technical Office Engineer

Job Description :

- Provide mechanical piping engineering technical office support for site construction activities including handling site issues, Engineering technical office support for Piping Color Code and stenciling activities.
- Preparing piping redesign solutions and communicating them to the design partner.
- Reviewing of test packages, welding maps and as built activities.

Dates : From Dec. 2006 till Oct. 2008

Employer : Advansys – Rehab Project for Gupco and British Petroleum (BP)

Project : Rehab - Offshore platforms Rehabilitation

Job title : Project Engineer / Mechanical Piping Design Engineer

Job Description :

- Locations:
 - Office: Enppi Rehab Building, Cairo, Egypt.
 - Site: Gupco onshore plant / offshore platforms, Ras Shukir, Egypt.
- Scope of work:
 - Using QunataPoint Prism 2D & 3D (Laser Scanning Software) to develop:
 - ❖ Piping and Pressure Vessel 3D drawings.
 - ❖ Making Clashing check for the 3D Design Model vs real Laser model of the existing plant.
 - Preparing various piping documents including Equipment arrangement, piping isometrics, Material take off, Constructability Reports ... etc for oil platform using CADWorx Plant & AutoCAD (2D and 3D) and Qunatpoint Prism.
 - Trained for using of PDMS software (Piping and Equipment modelling).

Dates : From Apr. 2006 till Nov. 2006

Employer : Forming Co. for Metal Formation, Alexandria

Job title : Mechanical Design Engineer

Job Description : Reverse engineering for design and redesign of molds, mechanical machine parts and assemblies using solid edge software.

Dates : From Dec. 2005 till Mar. 2006

Employer : Alexandria Shipyard Co. - Alexandria

Job title : Industrial Engineer

Job Description :

- Trained for Manufacturing Techniques used to manufacture machines and ship components.
- General Orientation around various workshops including chemicals production, piping fabrication, ship construction, ship maintenance, steel structure fabrication workshops.
- Ship Construction and Maintenance Fundamentals.

Dates : From Oct. 2004 till Dec. 2005

Employer : Egyptian Navy Forces, Ras el Tin naval base, Alexandria, Egypt

Project : Egyptian Obligatory Military Service

Job Description : Database management and development.

- Field of experience :**
- Experience since 2005, in Oil & Gas, petrochemical and power plant projects.
 - Roles: Lead Piping Engineer - Engineering Manager - Senior Project Engineer - Mechanical / Industrial Engineer.
 - Projects: Oil & Gas - Petrochemical - Power Plant - Industrial.
 - Experience (since 2005): Egypt (6 Y) - Saudi Arabia (10 Y) - Qatar (1 Y).
 - Worked in Arabian and international companies in many countries including:
 - Egypt: WorleyParsons - ThyssenKrupp (Uhde) Co. - Advansys Co.
 - Saudi Arabia: Intecsa (Dragados Gulf) Co. - NESMA Co. - Arabian BEMCO - SSEM.
 - Qatar: Al Jaber & Partners Co.
 - Spain: Engineering Technical meetings for Aramco Project.
 - Worked in mega projects owned by companies including:
 - Saudi Aramco: NJBP Project - AWIS Project - MTGP Project.
 - Qatar Petroleum & Shell: GTL project.
 - SABIC: Poly-Oxy-Methylene (POM) Project.
 - Saudi Electricity Company: Power Plant PP10 project.
 - GUPCO / British Petroleum: Offshore Platforms Rehab Project.