

Holds a B. Sc. in Mechanical Power Engineering and has about 16 years hands-on experience, including 14 years working in piping design and plant layout in chemical, petrochemical, power plants and Oil & Gas EPC projects. Good background in piping stress analysis. Familiar with international codes and standards. Skilled in using 3D modeling software. Engineering and construction field experience.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 28/11/1979
Gender : Male
Marital Status : Single
Residence : Cairo

EDUCATION

- : B. Sc. in Mechanical Power Engineering, Cairo University, 2005
- : Salah Salem Secondary School, Cairo – Egypt, 1997
- : Post graduate (heat transfer), Cairo University, Mech. Power Department, 2005-2006 (was not completed due to the Military Service)

LANGUAGES

Arabic : Native Language
English : Good
Italian : Basics

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Access, Power Point), Internet
- : 3D Modeling Design Programs: PDMS - Modules: Piping Design - Isodraft - Equipment - Draft - Steel - Paragon
- : CADWorx (Plant, Equipment, Steel, HVAC)
- : Navisworks Simulation
- : Stress Analysis Programs: CAESAR II program by COADE, CAEPIPE program by SST
- : CAD Programs: AUTOCAD program (2D & 3D), Solid Works
- : Programming Language: Visual Basic
- : Photoshop
- : Adobe Acrobat PDF Professional

TRAINING COURSES AND CERTIFICATIONS

- : Instrumentation and Control systems, Online - sponsored by Engineers Sub-Syndicate, Oct. 2021 - 36 hrs.
- : Project Management course, New Horizons, Feb./Mar. 2017 – 40 hrs.
- : Safety Internal Training by Technip:
 - HSE General Induction.
 - Pipe safe handling.
 - Confined Space.
 - Office Safety.
 - LOTO - Lock out and Tag out.
 - Lifting and Rigging.
 - Working at Heights.
 - Ergonomics and Manual Handling.
 - SOC Safety Observation Card procedure.
 - BBS - Behavior Based Safety.
 - Defensive Driving.
 - Shutdown Induction Safety.
 - PTW_Permit to Work Procedure and test preparation for Performers.
 - SIMOPS - Simultaneous Operations Activities.
- : NDT Inspection Methods: Visual Insp. – Liquid penetrant – Magnetic – Radiographic – Ultrasonic, Egyptian Welding Academy (EWA), 6 weeks (Feb./Mar. 2016).
- : Asme B31.1 Power Piping Design and Fabrication, American University in Cairo (AUC), 30 hrs. (Mar. 2010).
- : Piping stress analysis by using CAESAR II Program, American University in Cairo (AUC) 30 hrs. (Jan. 2010).
- : Design of Central Air Conditioning & Ventilation Systems, Eng. Ayman Omar's Office for Engineering Consultancies, 36 hrs. (Mar./Apr. 2010).
- : Design of Fire Fighting Systems, Engineers Sub-Syndicate in Cairo, 24 hrs (Apr. 2010).
- : Plumbing for Engineers, Engineers Sub-Syndicate in Cairo, 21 hrs (Mar. 2010).
- : PDMS Modules: Piping, Isodraft, Draft, Equipment, Steel & Paragon – On the job training, Uhde Engineering Egypt (UEE), 2 months (Nov./Dec. 2010).
- : CAESAR II program for piping stress analysis – On the job training, Uhde Engineering Egypt (UEE), 1 week (May 2012).
- : CAEPIPE program for piping stress analysis, EVRMAC for Engineering & Management, 2 days (Jan. 2009).
- : AutoCAD Program – 3D, Information & Computer Nets Center - Faculty of Eng. - Cairo Univ. - 18 hrs. (Oct. 2008).
- : AutoCAD Program – 2D, Information & Computer Nets Center - Faculty of Eng. - Cairo Univ. - 18 hrs. (Oct. 2005).
- : The Art of Time Management, New Horizons, 12 hrs. (Jul. 2012).
- : Business Writing, New Horizons, 12 hrs. (Sep. 2012).
- : Effective Communication Skills, New Horizons, 18 hrs. (Oct. 2012).
- : Trainings at:
 - The Armored Institution – The Central Region – Cairo, 3 months (2007).
 - KHALDA Company for Petroleum – Matroh – West Desert, 3 weeks (Aug. 2001).
 - LAMDINA for Cooling & Air Conditioning – El-Mohandseen – Cairo,

- 1 month (Jul. 2001).
- South Cairo Company for Electric Power Generation – South Cairo, 6 weeks (Jul. 2000).
- El-Nasr Company for car production – Wady Hof – Cairo, 6 weeks (Aug. 1999).
- 360 Military Factory – Helwan – Cairo, 2 weeks (Jul. 1999).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Apr. 2019 till Oct. 2021
Employer : TechnipFMC (Technip Energies), Egypt Branch
Project : MIDOR Refinery Expansion Project – Ameria free zone – Alexandria - Egypt
Job title : Senior Piping Design Engineer

Dates : From Mar. 2017 till Feb. 2019
Employer : TECHINT Engineering and Construction, Egypt
Projects :

- South Helwan Power Plant Project – Kureimat IX - Egypt
- Hydrogen Generation Plant of South Helwan Power Plant - Kureimat IX - Egypt

Job title : Technical Office Piping Design Engineer

Dates : From Nov. 2010 till Feb. 2017
Employer : ThyssenKrupp Industrial Solution (TKIS), Cairo - Egypt
Projects :

- Urea Revamp Project - Egyptian Fertilizer Comp. (EFC), Ain Sokhna, Egypt
- Ammonium Sulphate Project - Alex. Fert Comp. (AF), Alexandria, Egypt
- Ammonium Nitrate Project - BAGFAS Comp., Turkey
- Caustic Soda Project - KPR Industrial Comp., India
- Soybean Oil And Meal – Silver Fox Project – Cargill, Egypt

Job title : Piping Design & Layout Engineer

Dates : From Feb. 2010 till Oct. 2010
Employer : I.H.C.G Consultancy Group - Cairo, Egypt
Projects :

- Anda Compound (Hotel, mall, residential, administration, garage, mosque, GYM, swimming pool) - Al-Khartoum, Sudan
- Libya Oil Fuel Station – Kom Oshiem – El-Faiuom – Egypt

Job title : Plumbing & Fire Fighting Systems Designer

Dates : From Dec. 2008 till Dec. 2009
Employer : EVARMAC for Engineering and Management – Cairo, Egypt
Projects :

- Nubaria Power Station III
- Cairo West Power Station
- El-Tebbin Power Station

Job title : Piping Designer & Stress Analyst

Dates : From May 2006 till Oct. 2008
Employer : Egyptian Armed Forces

Job title : Heavy Equipments Maintenance Officer Engineer

- Field of experience** :
- Piping Design and Plant Layout:
 - Specialist in process and power piping design including supporting system design using PDMS and CADWorx 3D modeling software.
 - Familiar with international design codes, standards, and specifications.
 - Familiar with all documentations utilized in piping design and plant layout such as: (P&ID, PFD, line list, Eng. design specs, piping class spec., Std pipe supports spec., Equipment vendor dwgs. & data sheets, Overall plot plan and area general arrangement drawing).
 - Good knowledge in piping flexibility and stress analysis fundamentals.
 - Prepare and develop as well as check and comment all piping detailed engineering deliverables such as: (Isometric dwg. - special supports - Overall and area plot plan - AG&UG piping plot plan – Equipment Nozzles, clips, Platforms, and ladder orientation dwg. - Equipment fixation detail - MTO & BOQ -).
 - Design of Steam tracing, and plant utility systems.
 - Firefighting network design for tanks, equipment, skids, and closed spaces – water, foam, CO2 & FM200.
 - Good experience in Hydrogen Generation Plant technology, process, piping design & layout, and constr.
 - Comment master PID diagrams and feedback with process department.
 - Review technical offers from vendor/suppliers of piping components and special items, and prepare Technical bid evaluation reports.
 - Coordinate and communicate with other project engineering disciplines (process, civil, electrical, Inst.) to handle any interfering tasks.
 - Highlight technical problems and concerns, and share proposed solutions with piping group Lead.
 - Report work progress to the piping group lead/ department head.
 - Good experience in Plant layout & lifting studies.
 - Review and check equipment vendor drawings as per plant layout point of view in terms of accessibility, maintenance, nozzle orientation, and lifting plan, and communicate with the vendor for any modification required.
 - Have a good experience in revamping projects as well as Green and Brown field activities.
 - Plant Design 3D Modeling and 2D Drawings preparation:
 - Skilled in using 3D Modeling software like PDMS and CADWorx to create plant 3d model.
 - Skilled in using AutoCAD to draw and update detailed engineering drawings.
 - Skilled in using Navisworks simulation/management for 3D model review and navigation.
 - Construction and Site work Experience:
 - Have a good experience in piping and mechanical work execution phase at site.
 - Prepare Tie-In packaged folder and execute site check and

- verification.
- Prepare as-built isometric drawings, welding maps, material requisition.
 - Prepare TSI (technical site instruction) for modified IFC ISOs
 - Construction supervision, communicate with vendors and client, and coordinate the work between the shop and the site.
 - Handle the RFS (Request for survey) task and reports the progress status to the project management.
 - Lead a group for Topographical and NDE site survey required for revamping work in brown field.
 - Review and validate Topographical and NDE reports provided by subcontractor.
- Stress Analysis:
 - Good knowledge in piping stress analysis basic theories and piping flexibility fundamentals.
 - Perform stress analysis for critical lines using Caepipe and Caesar program as per ASME codes.
 - Prepare special supports dwg., and stress report.
 - NDT Inspection:
 - Have a level II certification in NDT for methods: Visual Insp., Liquid penetrant, Magnetic, Radiographic, and Ultrasonic tests.
 - Plumbing and Fire Fighting Engineering:
 - Water supply and drainage system design for domestic water, swimming pools, fountains, laundries.
 - Firefighting system Design including sizing of domestic and firefighting water tanks.
 - Calculate head and capacity for domestic and firefighting water.