

Holds a B. Sc. in Mechanical Power Engineering and has more than 7 years hands-on experience working in piping and pipeline, design and stress analysis & supporting in Oil and Gas projects.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 28/04/1987
Gender : Female
Marital Status : Married
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2009

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: CAESAR II 5.0, 5.1, 5.2
: PDMS
: MDS in PDMS 12
: PDMS supports modeling
: Smart Plant 3D
: Smart Plant Review

TRAINING COURSES AND CERTIFICATIONS

: ASME Course B31.3 (ASME Code for process piping), AUC (2012).
: Piping dynamic stress analysis course at ENPPI Academic Center.
: Multi-Discipline Support (MDS) in PDMS 12.6, AVEVA (2012).
: Training course of PDMS paragon catalogues and specs, ONSPEC (2016).
: Training course of PDMS draft Module, ONSPEC (2016).
: Training course of PDMS ISO-draft Module, ONSPEC (2016).
: Training course piping layout and plant design, CB&I Cairo (2013).
: Training course Smart Plant 3D (piping, Equipment & Supporting modules), CB&I Cairo (2013).

- : Training course Piping Materials and Engineering, CB&I Cairo (2013).
- : Training course Piping design using PDMS application, CB&I Cairo (2009).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Mar. 2014 till now
Employer	:	Onspec Tawakol for Engineering and Contracting
Projects	:	• RWE - Basic and Detailed Engineering Services for Disouq Plant • GPC - Basic and Detailed Engineering Services for Crude Oil Pipeline in western desert - Egypt (Abo-Sanan) • Petrodara Petroleum Co. - Detailed Engineering Services for well sites design • GPC - Basic and Detailed Engineering Services for 22 KM 8" Gas Pipeline in western desert - Egypt (PETROSENNAN) • ADES - Basic and Detailed Engineering Services for Jack-Up Rig Production Facility • Petro-Dara Petroleum Co. - Detailed Engineering Services for Hana Plant • AGIBA CO. – Basic and Detailed Engineering for flare upgrade at RAML and ZARIF fields • WEPCO CO. - Basic and Detailed Engineering for BADR New Gas Compressor • EL WASTANI PETROLUM CO. - HAZOP-SIL Recommendations for WASCO plant • EL WASTANI PETROLUM CO. - WASCO Production Wells Tie-ins. • Petro-Dara Petroleum Co. - Detailed Engineering Services for firefighting extension for H&K stations. • SUMED / PETROJET CO. - Ain Sukhna Product Hub (ASPH) LPG Facilities
Job title	:	Piping & Pipeline Engineer
Job Description	:	• Stress analysis for pipelines, launcher and receiver piping. • Stress analysis for piping on Reciprocating compressors with the required dynamic Modal analysis. • Stress analysis for piping on many equipment pumps, tanks, etc..... • Stress analysis for GRP tanks piping. • Stress analysis for firefighting systems. • Preparing stress reports with stress sketches for all critical systems. • Visual supporting for non-critical piping systems. • Prepare Piping Isometric drawings using PDMS. • Design of Process above ground piping. • Equipment, piping and steel structure 3D modeling Using PDMS. • Prepare Material Take Off (MTO). • Prepare As-Built Isometrics. • Prepare piping man hour plan for proposal projects.
Dates	:	From Nov. 2013 till now
Employer	:	EES (Engineering and Science Services) at AUC
Job title	:	Instructor

Job Description	:	Piping Stress Analysis by CAESAR II course, the course included the following: • Piping stress analysis & supporting review. • Design code basics. • Supporting and flexibility. • System modeling on CAESAR II. • Static analysis and output results Reading. • Equipment code compliance. • Dynamic analysis (modal analysis). • Case study as the course project.
Dates	:	From Apr. 2010 till Dec. 2013
Employer	:	CB&I Cairo (Formerly LUMMUS L.L.C.)
Projects	:	• Nagarjuna Oil Co. Ltd. Refinery, India • Kemya Quence System Modification Project, Saudi Arabia • Reficar Cartagena Expansion Project, Colombia • ESSO Longford Gas Conditioning Plant, Australia • CHEVRON, Gorgon Gas Project, Australia
Job title	:	Piping Stress Analysis & Supporting Engineer
Job Description	:	• Member of the Piping Stress Analysis and Support Team. • Projects are executed at CB&I Cairo office as a supporting office to the Netherlands, London and USA offices for Projects execution. • Performing stress analysis (using CAESAR II) and support selection of the following systems: - Rotating equipment (pumps and steam turbines) and static equipment piping (including Nozzles check, PSV calculations and trunnion support checks). - Steam letdown stations of high pressure steam and medium pressure steam piping systems. - Various piping systems such as steam, process, fire water, water condensate ...etc. with pressure up to 60 barg and temperature up to 420 °C. - Heater Pumps (electrical and steam turbines driven types) and their turbines nozzles loads evaluation. - Steam manifolds lines and fire water systems (starting from deluge skids to different process areas). - Natural Gas lines in area Power & Steam Generation Area, Raw Water Treatment and waste water treatment. - Comprehensive Analyses of sensitive equipment subjected to settlement. - Comprehensive Analyses of FRP tanks & Skids subjected to settlement to reach almost zero loads on nozzles. - Flare lines up to the size of 44". • Preparing lists of special supports (struts, springs ...etc.). • Preparing stress analysis calculations reports. • Performing dummy, floor stands & flange leakage checks. • Reviewing Spring Hangers' sheets. • Preparing of Tanks' nozzles' loads sheet to be transferred to manufacturers. • Visual Analysis & supporting of non-critical lines based on manual calculations.

- Final Stress Isometrics checking before IFC.
- Leading a group of 5 persons to perform the stress analysis and support selection, according to the company standard, of the fire water system.
- Performing preliminary study for rack lines and planning the loops location.
- Performing stress analysis and support modeling for flare lines up to 44".
- Test Pack preparation and hydro test material take-off.

- Field of experience :**
- Experience in piping and pipeline stress analysis, 3D modeling and design for piping and equipment, preparing ISOs, preparing MTO and Revising P&IDs.
 - Experience since 2010 in Piping Stress Analysis & Supporting through working in EPC projects to CB&I (Multinational EPC contractor Company), Cairo office and ONSPEC for Engineering and Contracting Company.
 - Experience in using CAESAR II, MDS, PDMS and SMART PLANT REVIEW.
 - Contributing in modeling and flexibility analysis of process piping systems.
 - Experienced in using international regulations, codes and standards used in the petroleum field (API, ASME, ASTM, NFPA, NEMA ...etc.).
 - Experienced in selection of special piping supports.