

Holds a B. Sc. in Civil / Structural Engineering and has more than 13 years of experience in Design, Concrete and steel structures of industrial projects (Oil & gas pipe lines, Thermal power stations, Combustion power stations, Combined power stations, Desalination Stations and infrastructures).

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/09/1977
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Civil / Structural Engineering, Ain Shams University

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Staad-Pro V8i
: GTStrudl 30
: Sap 2000
: SP Column, SP Mat & Midas
: AUTOCAD
: Tekla
: Micro-station
: Smart-Plant

TRAINING COURSES AND CERTIFICATIONS

: ISO 9001& ISO 14001 at Mody Center/Egyptian Consultants.
: Primavera at the American University in Cairo.
: Tekla Structures V15 (in-house training at Pgesco).
: (3D Model) Smart-Plant by Intergraph.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2015 till now
Employer : Egypt Engineering Services (EGYPTROL)
Job title : Civil Engineering Group Supervisor
Job Description : Responsible for civil engineering group design output.

Dates : From May 2013 till Dec. 2014
Employer : Gulf Consolidated Contractors (GCC)
Job Description :

- Member of the Structural Engineering Team for the projects that were executed at Khobar head office, KSA.
- Projects executed and Titles include:
 - Piping/Pipeline Design Team Member for BI-10-01768 - Install East West Sales Gas Pipeline Extension that is being executed under name SRG-2 from EWPS-1 to EWPS-3 for SAUDI ARAMCO – KSA (from May 2013 till Dec. 2013). The project is a LSTK of a new 56" diameter (SRG-2 Sales Gas Pipeline) by approximately 150 kilometers long pipeline from EWPS-1 to EWPS-3 with all associated facilities.
 - Reviewing the structural design packages (30% -60% - 90% - IFC) from engineering firms including structure design calculations, foundation design calculations, piping stress analysis values, layouts, steel structure schedule, foundation schedule, concrete and steel drawings ...etc. with reference to SAUDI ARAMCO specifications and standards and the international standards too.
 - Attend the weekly progress engineering meetings and design review meetings.
 - Piping/Pipeline Design Team Member for BI-10-00006 - Install Pipeline Instrument Scraping Facilities that is being executed for SAUDI ARAMCO – KSA (from Jul. 2013 till Dec. Dec. 2013). The project is a LSTK of upgrading of 20 existing pipelines facilities including upgrading launchers, receivers and all associated facilities.
 - Reviewing the structural design packages (30% -60% - 90% - IFC) from engineering firms including structure design calculations, foundation design calculations, piping stress analysis values, layouts, steel structure schedule, foundation schedule, concrete and steel drawings ...etc. with reference to SAUDI ARAMCO specifications and standards and the international standards too.
 - Attend the weekly progress engineering meetings and design review meetings.
 - Piping/Pipeline Design Team Member for BI-10-01214 - Increase East-West Pipeline Capacity that is being executed for SAUDI ARAMCO – KSA (from Sep. 2013 till Nov. 2013).
 - The project is a LSTK of the following activities:
 - Day-lighting Headers for East-West Pumps stations for AY-1 pipeline and Pressure Reducing Stations.
 - DRA injection for both AY- 1and AY-1L pipelines downstream of all East-West Intermediate Pump Stations

- and Abqaiq Plants to increase the current strategic capacity of 5.0 MMBOD to 7.0 MMBOD.
- New surge relief stations and upgrade of the existing surge relief system.
- Responsibilities:
 - Reviewing the structural design packages (30% -60% - 90% -IFC) from engineering firms including structure design calculations, foundation design calculations, piping stress analysis values, layouts, steel structure schedule, foundation schedule, concrete and steel drawings ...etc. with reference to SAUDI ARAMCO specifications and standards and the international standards too.
 - Attend the weekly progress engineering meetings and design review meetings.
- Piping Stress Analysis Engineer for BI-10-01214 - Increase East-West Pipeline Capacity that is being executed for SAUDI ARAMCO – KSA (from Dec. 2013 till Dec. 2014).
 - Located at SOFCO to finish ALL structural analysis and design activities related to the project including the followings:
 - Eleven EWPS's (East-West Pump Stations), Abqaiq Plant.
 - Four new SRS (Surge Relief Station).
 - Two existing SRS (Surge Relief Station).
 - Two existing PRS (Pressure Reduction Station).

Dates : From Aug. 2007 till Apr. 2013

Employer : Power Generation Engineering & Services Company (PGESCO/Bechtel)

Job Description :

- Member of the Structural Engineering Team for the projects that were executed at Pgesco office in Cairo, EGYPT.
- Projects executed and Titles include:
 - Baiji Combined Cycle Power Plant – Iraq (from Jul. 2012 till Apr. 2013). The key overall objective for Baiji Combined Cycle Power Plant Project is to execute the full design phase for all concrete and steel structures in the power plant according to the American cods & standards and support the construction team for all technical issues. Baiji project is Simple Cycle Power Generation Project (Gas Power Plant) of appx 1014MW at BAIJI, Iraq.
 - Structural design for the power block steel and concrete structures such as; CTG building and its foundation, Pipe-rack structure and its foundation, CTG slab on grade, fire pump house, CTG transformer fire walls and its foundation, cable and pipe trenches and the bypass stack foundation moreover the water treatment concrete circular and rectangular tanks, equipment skids, auxiliary structures and the ancillary structures.
 - Coordination with the mechanical, plant design, architectural, vendors and site engineers during the design and construction phase of the project.
 - Banha Combined Cycle Power Plant– Egypt (from Aug. 2011 till Jul. 2012). The key overall objective for Banha Combined Cycle Power Plant Project is to execute the full design phase for all concrete and steel structures in the power plant according to the American cods & standards and support the construction team for

all technical issues. Banha is designed to include an indoor power block consisting of two 250 MW (nominal, ISO) Combustion Turbine Generators (CTGs), each feeding exhaust gases to its respective unfired Heat Recovery Steam Generator (HRSG). Steam from the two HRSGs is feeding to one 250 MW (nominal), single reheat, condensing Steam Turbine Generator (STG).

- Performing complete design of all concrete structure buildings and its foundations (STG & CTG building foundations and the ancillaries structure) which have different dimensions and different loading criteria in accordance with IBC 2003, ASCE 02 and ACI 318-02 in addition to design review for the main and auxiliary transformers concrete mat and its fire walls and the design for the circulating water pumps electrical building moreover the design of the fire pump house, the design of the intake and discharge structures Preparing of Tanks' nozzles' loads sheet to be transferred to manufacturers.
- Coordination with the mechanical, plant design, architectural, vendors and site engineers during the design and construction phase of the project.
- Reviewing all workshop detailed drawings.
- Receiving and sending correspondence (Letters, RFI's, submittals, field change request and field change note) from and to subcontractors, vendors and distribute over the specialized disciplines and following up the closing out of those correspondences civil and structure, piping design ...etc.

- El Ain El Sokhna Thermal Power Plant– Egypt (from Nov. 2009 till Aug. 2011). The key overall objective for Banha Combined Cycle Power Plant Project is to execute the full design phase for all concrete and steel structures in the power plant according to the American cods & standards and support the construction team for all technical issues. El Ain El Sokhna is designed to include a 2x50MW supercritical steam thermal power plant for interconnection to the National Unified Power System (NUPS) through the new 500 KV GIS Switchyard facility. The power block comprises two identical Rankine cycle turbine generator units, each with a nominal rated capacity of 650MW.

- Performing complete design review of all concrete structure buildings and its foundations, which have different dimensions and different loading criteria in accordance with IBC 2003, ASCE 02 and ACI 318-02 in addition to design review for the main and auxiliary transformers concrete mat and its fire walls and the design for the circulating water pumps electrical building moreover the design of the fire pump house, moreover the design of steel structure of the pipe rack according to IBC 2003 and AISC / LRFD Third Edition.
- Coordination with the mechanical, plant design, architectural, vendors and site engineers during the design and construction phase of the project.
- Reviewing all workshop details drawing (Steel and Concrete).
- Receiving and sending correspondence (Letters, RFI's, submittals, field change request and field change note) from and to subcontractors, vendors and distribute over the specialized disciplines and following up the closing out of those

- correspondences.
- Elmaco Transformer Factory – Egypt (from Jul. 2009 till Nov. 2009). The key overall objective for Elmaco Transformer Factory Project is to execute the full design phase for all concrete and steel structures according to the American cods & standards and support the construction team for all technical issues.
 - Performing complete design of all steel structure buildings, which have different dimensions and different crane capacities from 5.0 tons up to 120.0 tons and design its foundations. The total number of steel buildings of this project is 15 buildings, in addition to the design review of the concrete buildings (Administration, Affairs, Mosque and some of small buildings). Using IBC-2003, ACI-2002, AISC-2002 and ASCE 7-2002 / American building codes.
 - Coordination with the mechanical, plant design, architectural, vendors and site engineers during the design and construction phase of the project.
 - Reviewing all workshop details drawing (Steel and Concrete).
 - Receiving and sending correspondence (Letters, RFI's, submittals, field change request and field change note) from and to subcontractors, vendors and distribute over the specialized disciplines and following up the closing out of those correspondences.
 - ACESCo / Libya – Under authorization of PGESCO/Bechtel (from Nov. 2008 till Jul. 2009):
 - Zwitina power plant 2x285MW: PGESCO has teamed with ACESCo in the design review, site supervision and project management of Zwitina 2x250MW in Libya located at the eastern region at ACESCo headquarters in Tripoli and at the job site. The scope also included material inspection and performance testing for all plant equipment.
 - Sarir 3x285MW: PGESCO is teaming with ACESCo in the design review, site supervision and project management of Sarir 3x250MW in Libya located at the eastern region at ACESCo headquarters in Tripoli and at the job site. The scope also included material inspection and performance testing for all plant equipment.
 - Zawia Sea Water Desalination: PGESCO has teamed with ACESCo in the design review, site supervision and project management of Sea Water Desalination Project in Libya located at Zawia at ACESCo headquarters in Tripoli and at the job site. The scope also included material inspection and performance testing for all plant equipment as well as training and technology transfer to GPCOEWG (General People's Committee of Electricity, Water and Gas).
 - Responsibilities:
 - Performing complete design review for all of the structures in the power station. (Combustion Turbine Generator Steel Structure and Foundations, Electrical Control Building Steel Structure and Foundations, the Steel Structure of the Pipe Rack and its Foundations, the Foundation of Heat Recovery Steam Generator, Concrete Building of Water Treatment Area, the Design of Steel and Concrete Tanks

and its Foundations, Design Review of all Structures of the Desalination Plant such as ECB, Pipe Rack and Boiler and review geotechnical report of the plants). Using UBC, ACI, AISC and ASCE American building codes.

- Reviewing all work shop details drawing (Steel and Concrete).
 - Coordination with the mechanical, electrical, plant design, vendors and site engineers during the design and construction phase of the project.
 - Reviewing submittals received from subcontractors.
 - Receiving and sending correspondence (Letters, RFI's, submittals, field change request and field change note) from and to subcontractors, vendors and distribute over the specialized disciplines and following up the closing out of those correspondences.
- The following Projects in Egypt (from Aug. 2007 till Nov. 2008):
- Nubaria III Combined Cycle Power Plant.
 - El-Atf Combined Cycle Power Plant.
 - Cairo West 7 & 8 Power Plant.
 - Tebbin Thermal Power Plant.
 - Sidi Krir Combined Cycle Power Plant.
 - Responsibilities:
 - Performing complete design for concrete in the power station. (Top slab of the Intake and Circulating water pump house, Neutralization and Waste Water tanks, Seal Well structure, Combustion Turbine Generator & Steam Turbine Generator foundations, The piling and foundation of Heat Recovery Steam Generator, Condensate Pump and Circulating Water Pipe Pits, Slabs on grade and foundations of Circulating water pump house & Main Building of Water Treatment Area and the foundations of Clarifier & Demineralized tanks). Using UBC, ACI, and ASCE American building codes.
 - Coordination with the mechanical, electrical, plant design & Vendors of the equipments during the design and construction phase of the project.
 - Consult with architects, engineers and other technical disciplines to make sure that design intentions are met and communicate with project managers.
 - Reviewing submittals received from subcontractors.
 - Receiving correspondence (Letters, RFI's, submittals) from subcontractors, vendors and distribute over the specialized disciplines and following up the closing out of those correspondences.

Dates : From Aug. 2006 till Jul. 2008
Employer : Pacer Consultant Group
Job Description :

- Member of the Civil/Structural team for the Projects that were executed at Pacer office in Cairo, EGYPT.
- The key overall objective for the irrigation and infra-structure projects that enables it to deliver the best solutions for using water efficiently and optimum infra-structure engineering. The civil/structural team is

participated in the design of some of the biggest national projects in irrigation, bridges and locks.

- The New Navigation Channel and Lock On Nubaria Canal: Survey works of existing lock, soil investigation, detailed design, tender documents, assisting the owner in bid evaluation and construction supervision.
- New Esna Lock: Preparation of the civil detailed designs, Reviewing survey works of existing lock and all structures in the project area.
- Responsibilities:
 - Concrete design of the structures.
 - Preparation of tender documents.
 - Preparation of workshop drawings.

Dates : From Apr. 2001 till Jul. 2006

Employer : The General Company for Land Reclamation and Development

Job Description :

- Member of the Civil/Structural team for the Projects that were executed at the company office in Cairo, EGYPT.
- Lock and regulator of El-Rayah El-Tawfiky.
- Lock and regulator of El-Rayah El-Monofy:
 - Lock of length 100m.
 - Movable steel bridge with capacity 70ton above the lock.
 - Steel work for the two gates and the side gate.
 - Sheet piles around the site of lock and regulator.
 - Regulator with six opening gates with width 5.00m
 - Concrete bridge with capacity 70 ton above the regulator.
 - Steel work for the six opening gates
 - Piling work.
- The great river in Libyan (El-Nophalia):
 - Reinforced concrete rested water tanks with capacity 5000m³.
 - Residential complex.
 - Irrigation pipeline for the middle zone of the coast.
- Responsibilities:
 - Concrete design of the structures.
 - Preparation of tender documents.
 - Preparation of workshop drawings.

Field of experience :

- Structural Design Engineer with more than 13 years of experience in Design, Concrete and steel structures of industrial projects (Oil & gas pipe lines, Thermal power stations, Combustion power stations, Combined power stations, Desalination Stations and infrastructures).
- Structural analysis design using Staad-Pro V8i, GTStrudl 30, Sap2000, SP Column, SP Mat, Midas & Drafting programs like AutoCAD, Microstation Review, Tekla Review & Smart Plant Review.
- Site support experience for the troubleshooting of construction problems.
- Experienced in using international regulations, codes and standards used in the structural analysis and design (IBC, ASCE7, ACI, AISC, API650, ASTM ...etc.).
- Experienced in using SAUDI ARAMCO standards for Structural analysis and design.
- Experienced in design concrete and steel superstructures, shallow & deep foundations, residential buildings, ring wall, concrete tanks ...etc.
- Promoting health, safety and environmental awareness.

- Experienced in applying QA/QC regulations.