

102433-CVL-124CDEGX-E-1983
Six Sigma & Value Engineering Chief

Holds B. Sc. in Civil Structural Engineering, M. Sc. in Structural Engineering, a Diploma in Hydropower Development and MBA. Has over 37 years of achievements in the field of civil/structural engineering particularly in power generation projects, including 10 years at the Egyptian Electricity Authority EEA and 24 years at PGESCO/BECHTEL with international expertise at (Bechtel USA and ACESCO Libya).

PERSONAL DATA

Nationality : Egyptian
Gender : Male

EDUCATION

- : B. Sc. in Civil Structural Engineering, Ain Shams University, 1983
- : M. Sc. in Structural Engineering, Ain Shams University, 1989
- : Diploma in Hydropower Development, Norwegian Tech. University, Norway, 1990
- : MBA, IBSS (Scandinavia), Egypt, 2016

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Value Methodology Associate (VMA) (SAVE International) (2021).
- : Six Sigma Black Belt (SSBB) (ASQ) (2014).
- : Applied Total Quality Management Diploma, LOGIC & BEC, Egypt (2013).
- : Hydropower Eng. & Construction Mgmt., Colorado State Uni., U.S.A (1993-1994).
- : Risk Management Professional, Global Knowledge, Egypt (1 week) (2017).
- : ISO 9001:2015 IRCA, TÜV Egypt (1 week) (2016).
- : Certificate of Appreciation - Speaker at the ICOQS (International Conference on Quality Standards) – presented “A Business Excellence Model Using ISO 9001:2015”, ASQ (American Society for Quality) (Pittsburgh, PA, USA) (1 session) (2016).
- : Hazard Identification and Risk Assessment (1 day) (2014).

- : Computerized Information Management, AUC in Cairo, Egypt (1 week) (2011).
- : Effective Negotiation Skills, Akhbar El Youm Center, Egypt (3 days) (2010).
- : Contract Formation and Management, BECHTEL, Egypt (2 days) (2006).
- : Improvement of Managerial Skills, L.P. Center, Egypt (5 weeks) (1997).
- : Feasibility Study of Projects, M.E.A.G, Egypt (1 week) (1997).
- : Accounting for Non-Accountants, M.E.A.G, Egypt (1 week) (1996).
- : Power Plants Design and Mgmt., BECHTEL/PGESCO, USA (1 month) (1994).
- : Planning & Constr. of Hydropower Plants, Swed Power, Sweden (2 months) (1991).
- : Several Civil / Structural Engineering courses and training in codes & standards, structural analysis, building materials, structural and drafting software.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2014 till now
- Employer** : Power Generation Engineering and Services Company (PGESCO)
- Job title** : Six Sigma & Value Engineering Chief
- Job Description** :
- Providing inputs in project proposals in the area of QA/QC, VE, RM, and safety studies. Besides, attending meetings, reviewing documents, and coordinating information for projects such as Dabaa Nuclear Power Plant, Hamrawein Coal Fired Power Plant, and Tahrir Petrochemical Complex (TPC).
 - Facilitate the VE workshops, develop reports, and follow up the implementation of the studies outcome for the optimum solutions of systems and products such as:
 - Cooling water system for the turbines (once through, cooling towers, air cooled).
 - Circulating water pipe material and system (RCCP, GRP, Steel, etc.).
 - Structural system for the turbine building (frames, beams, trusses).
 - Soil improvement systems (replacement, compaction, preloading, etc.).
 - For all contractors and suppliers in different projects; providing quality inputs to projects tender documents, managing quality meetings, and reviewing quality documents submitted. In addition to conducting assessment and surveillance visits to local/international supplier's workshops such as:
 - "Zhuji Huashang Company of Feida Group" workshops for fabrication of structural steel.
 - "Shanghai Boilers Works Limited (SBWL)" workshops for fabrication of boiler pressure parts.
 - "Yangzhou Chengde Steel" supplier of the pipe's material.
 - "Changzhou Changbao" supplier of the tube's material.
 - "Shandong Power Equipment Company" (SPECO) workshops for fabrication of transformers.
 - Developing and conducting quality, VE, and risk management training to client's engineers at the ministry of electricity in Egypt, Libya, and Iraq, in

addition to PGESCO engineers and managers.

- Participating continuously with the MoE in planning subjects related to quality, risk management, value engineering, and safety studies that are directed to the engineering department.
- Leading a team of chiefs to conduct internal POW (audits) on different projects at multiple phases.

Dates : From Jan. 2010 till Apr. 2014
Employer : Power Generation Engineering and Services Company (PGESCO) / Bechtel
Job title : Chief Civil Engineer - CCE

Dates : From Dec. 2008 till Dec. 2009
Employer : Power Generation Engineering and Services Company (PGESCO) / Bechtel
Project : El Ain El Sokhna Power Plant units 1 & 2 (2x650MW – First Supercritical Plant in the Middle East)
Job title : Project Engineer - PE
Job Description :

- After returning from the USA, I was responsible for leading a full team of engineers and group supervisors from all engineering disciplines.
- The tasks included but not limited to, developing the Topical Report (economic data), Execution Quality Plan and Engineering Design Procedures Manual EDP, in addition to preparation of 18 prime contract packages (Civil Works, Offshore Works, Site Services, Steam Turbine Generators, Boilers, Tanks, Pumps and Drives, Water Heaters, Water Treatment Plants, Desalination Plants, Critical Piping, Transformers, DCS, Electrical installations Works, Mechanical Installations Works, Switch Gears, Switch Yard and Environmental Units) for reviewing with owner/finance banks, bidding, evaluation, negotiation and signing with the contractors.
- Also, the task included developing level 6 project schedule, issuing monthly progress report to the owner, preparation and coordination of engineering conceptual and detailed design drawings for all disciplines.

Dates : From Aug. 2008 till Nov. 2008
Employer : BECHTEL Corporation (Frederick, Maryland, USA) / PGESCO
Project : El Ain El Sokhna Power Plant units 1 & 2 (2x650MW – First Supercritical Plant in the Middle East)
Job title : Project Engineer - PE
Job Description :

- Led a team of supervisors and engineers from all disciplines and coordinated with PGESCO and Bechtel different discipline chiefs the development of project deliverables in accordance with owner EEHC/EDEPC requirements and project schedule. It included, preparation of the project Preliminary Design Report PDR which described all systems and defined every equipment in the plant in addition to the preliminary engineering documents related to them (P&IDs, Heat and Mass balances, Water Balance, Equipment lists, Plot Plan, etc.).
- Also, the work included preparation of tender documents for the steam turbine generators and boilers packages.

Dates : From Jan. 2006 till Jun. 2008
Employer : Power Generation Engineering and Services Company (PGESCO) / Bechtel
Projects : Nubarua III, El-Atf and Sidi Krir 5 & 6 (each 750MW CAPP)
Job title : Civil Engineering Group Supervisor - EGS
Job Description : The main task was to lead a team to prepare the following: preliminary design reports (PDR) of the projects, the projects overall and detailed schedules, the detailed discipline personnel forecast (DDPF), all documents (specifications, and conceptual drawings) required for tendering of the civil packages, answer bidders clarifications, evaluate their offers, prepare the contracts documents and award them to the successful bidders, develop the final issued for construction (IFC) calculations and drawings, review the civil and offshore contractors documents, coordinate and review different documents with other disciplines, follow up work progress periodically with the whole project team, hold technical follow up and coordination meetings with the client and contractors, support the construction activities and resolve technical problems on site, support the start-up of the plants as needed till the closeout of the projects, in addition to planning the training program for the civil team.

Dates : From May 2005 till Jan. 2006
Employer : Arabian Consulting and Engineering Services Company (ACESCo) / PGESCO (Tripoli, Libya)
Projects :

- Three Power Plants (Western Mountain G.T., Benghazi North C.C. and Zawia C.C.)
- Nine (220KV and 400KV Substations) (Harsha, Janzour, Bir Lasta Milad, Fashlum, Khoms, Agdabia, Albyda, Ras Lanouf and Sidi Hamid)
- One (275KV & 30KV Cable Project) (Zawia - Harsha)

Job title : Civil Engineering Group Supervisor
Job Description : As a Civil Group Supervisor, I led the team to review all civil related submittals including the structural calculations and drawings provided by different contractors in accordance with each information among the client (GECOL), contractors and ACESCO, to study and resolve site civil technical issues in addition to site periodical follow up visits, and developing training programs for the civil engineers.

Dates : From Jun. 1997 till Apr. 2005
Employer : Power Generation Engineering and Services Company (PGESCO) / Bechtel
Projects : Power Plants of Sidi Krir units 1, 2, 3 & 4, Ayoun Moussa units 1 & 2, Suez Gulf units 1 & 2, Port Said units 1 & 2, Cairo North units 1 & 2, Nubarua units 1 & 2 and Talkha extension
Job title : Senior Civil / Structural Engineer & Civil Engineering Specialist
Job Description :

- Design work for different structural elements including circulating water intake concrete basin and steel structure, seal well concrete structure, desalination area foundation, water treatment area including steel structure, equipment foundations and neutralization basin.
- In addition to, HRSG, boiler, auxiliary boiler and re-boiler foundations, diesel generator foundation, vibrating equipment foundations such as forced draft fans and gas re-circulation fans, and pile arrangements and foundation design for different structures.
- Besides, review of vendor designs such as chimney calculations and

drawings.

- All works were always done by coordination with different disciplines (mechanical, plant design, electrical, etc.).

Dates : From May 1999 till Oct. 1999
Employer : BECHTEL Corporation (Frederick, Maryland, USA) / PGESCo
Project : Sidi Krir Power Plant units 3 & 4 (BOOT #1)
Job title : Senior Civil / Structural Engineer
Job Description :

- Design works of different structural elements for the first BOOT power plant in Egypt. This included seal well discharge structure, flue gas duct bridge foundations, water treatment area foundations, neutralization basin and wastewater basin.
- In addition to, design of miscellaneous foundations for the auxiliary boiler, re-boiler, fuel oil unloading area, and pipe supports.
- Also responsible for reviewing and coordinating the chimney package.

Dates : From Jan. 1987 till Jun. 1997
Employer : Egyptian Electricity Authority (EEA)
Job title : Senior Civil Engineer
Job Description :

- The main tasks were to review the conceptual design and bid documents and to evaluate, negotiate and award contracts of all related civil packages for power plants in Egypt. This was normally done by cooperation and coordination with international consulting firms such as: the American "Bechtel" and "Ebasco" and the German "Lahmeyer".
- Some of the power plants I have participated in are:
 - Damietta (2x330MW).
 - Damanhour (extension) (1x150MW).
 - Cairo West (1x330MW).
 - Mahmoudia (extension) (2x150MW).
 - Sidi Krir 1 & 2 (2x320MW).
 - Ayoun Moussa 1 & 2 (2x320MW).

Dates : From Dec. 1992 till Aug. 1993
Employer : Engineering Consulting Group (ECG)
Project : Conversion of Damanhour and Mahmoudia Power Plants into Combined Cycle
Job title : Site Engineer
Job Description : The main task was to supervise construction activities. This includes specifically driving of piles for the boiler and turbine foundations and buildings, casting of foundations and erection of the structural steel for the administration building, and monitoring of material and construction quality control.

Dates : From Jan. 1984 till Jun. 1986
Employer : Military Department for Great Projects
Project : Prefabricated Reinforced Concrete Units Factory
Job title : Production Engineer

- Job Description** :
- Production of the prefabricated concrete units (slabs, walls, and partitions) for the 10-story residential buildings in El-Tawfik community in Nasr City, Egypt.
 - I was responsible for creating production programs, casting, curing, storing, and shipping the units to the site.
- Field of experience** :
- Participated in the successful completion of many mega power plant projects in Egypt and abroad. At PGESCo, I started as a Senior Structural Design Engineer, followed by Civil Specialist, Civil Engineering Group Supervisor - EGS, Project Engineer - PE, then the company Chief Civil Engineer - CCE. Through the years, I participated in performing (conceptual, front-end & detailed) structural designs for onshore and offshore buildings and structures, checking compliance with codes and standards, coordinating with different disciplines (A, CS, E, M & PD), participating in site technical problem solving, developing projects specifications, and monitoring budget hours. Currently, I am the SS & VE Chief.
 - As an ex-civil chief, I led the whole civil department office team for all projects. My achievements included, planning for the implementation of company vision, planning resources for running and future projects, monitoring the team performance progress in projects (EPPRs), providing technical support to construction, developing training programs to the team, incorporating lessons learned in the civil specifications & drawings, developing and implementing the engineering department procedures (EDPs) & work process diagrams (WPDs), and establishing and implementing the team required software & hardware.
 - Overall experience: I participated in the successful completion of over 40,000MW power plant projects - simple/combined, gas/steam, subcritical/supercritical - in Egypt, Libya & Iraq.
 - PROFESSIONAL REGISTRATIONS:
 - Certified value methodology associate - VMA (SAVE International) (2021).
 - Certified six sigma black belt - CSSBB (ASQ) (2014).
 - Registered as a professional reinforced concrete consultant in Egypt (2000).
 - Membership of the American society for Quality (ASQ).
 - Membership of the American Concrete Institute (ACI).
 - Membership of the American Institute for Steel Construction (AISC).