

He holds a B. Sc. in Electrical Engineering and has 28 years experience in power plant projects' technical and project management issues. He worked in operation, maintenance, construction supervision, start-up, design review, detailed engineering, engineering management and project management of power plants and water treatment projects. He participated in different project prospects as an owner, a contractor, an engineer and a consultant.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Year : 1959  
Marital Status : Married

## **EDUCATION**

: B. Sc. in Electrical Engineering, Ain Shams University, 1982  
: Licensed Consultant Electrical Engineer in Egypt since 2002

## **LANGUAGES**

Arabic : Native Language  
English : Fluent ("TOFEL" Score 537)

## **COMPUTER SKILLS**

: MS Office (Word, Excel, Access, Power Point)  
: MS Project, MicroStation  
: AutoCAD, Primavera

## **TRAINING COURSES AND CERTIFICATIONS**

: Professional Program Courses in Project Management, American University:

- Project specifications, bids and contracts.
- Feasibility studies and financing.
- Project planning and control techniques using PRIMAVERA.

: Courses in Electrical, Mechanical and Control Systems of Power Plant Components by:

- Westinghouse
- Daelim
- Teledyne
- Ansaldo
- Fuji Electric
- Bechtel Power Corp.

- : Six-Sigma (Champion) by Bechtel Power
- : MBA Distance Student in Colorado State University

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Mar. 2008 till now (Feb. 2011)  
**Employer** : EGYPTROL  
**Job title** : Founder and Director

**Dates** : From Mar. 2006 till Mar. 2008  
**Employer** : ACESCo (Arab Consulting & Engineering Services Co.),  
 Libyan engineering company owned by GECOL (of Libya) and EEHC (of Egypt), Secoded from PGESCO.

**Projects** : In tendering phase:

- Tripoli West (4x350MW)
- Alkhalij (4x350MW)
- Sarir (3x150MW, Gas Turbines)
- Sabha (5x125MW, Gas Turbines)
- Tobrouk (1000 m3/day Desalinated water + 700MW Go-Generation)

In construction phase:

- Western Mountain (4x150MW, GTs)
- Benghazi North (2x450MW CC)
- Zawia (2x450MW CC)
- Desalination plants (Zawia, Derna & Susa) total 160,000 m3/day
- OHTL 1000 km
- 400KV Substations 7 substations

**Job title** : Deputy General Manager

**Job Description** :

- Leading the Engineering team activities through leading the Engineering Group Supervisors (Civil, Architect, Electrical, Mechanical, Physical Design and Control systems) during the preparation of the power plant Contract Packages and Purchase Orders. Packages covered supply, erection, testing, safety issues, and start-up requirements for Turbines, Steam Generators, Civil Works, Mechanical Works, Electrical Works, Emissions Monitoring, Pumps, HVAC, Emergency Diesel Generators, overhead Cranes, etc.
- Managing company engineering team in executing design review tasks of contractors' technical submittals.
- Resolve running projects engineering, construction, budget and time schedule issues; prepare reports with recommendations to clients, respond to contractors' correspondences to client and conduct coordination meetings between clients and contractors, etc.
- Initiate and follow up company projects invoicing and payments collection.
- Control projects budgets.
- Preparation of company proposals for future work.
- Define and resolve company resources and manpower requirements.

**Dates** : From May 2002 till Feb. 2006  
**Employer** : PGESCO (Power Generation Engineering and Services Co.),  
Egyptian engineering company partially owned by BECHTEL POWER of  
USA.  
**Project** : Nubaria Combined Cycle Power Plant (2x750MW)  
**Job title** : Deputy Project Engineering Manager  
**Job Description** : 

- Leading the Engineering team activities through the Engineering Group Supervisors (Civil, Architect, Electrical, Mechanical, Physical Design and Control systems) during the preparation of the power plant Contract Packages and Purchase Orders. Packages covered supply, erection, testing, safety issues, and start-up requirements for Turbines, Heat Recovery Steam Generators, Civil Works, Mechanical Works, Electrical Works, Emissions Monitoring, Pumps, HVAC, Emergency Diesel Generators, overhead Cranes, etc.
- Leading the Engineering team in executing conceptual and detailed design (for PGESCO scope of design) and technical submittals design review for contractors' technical submittals (for contractors' scope of design). Coordinating engineering activities with Construction team, Procurement team, different Contractors/suppliers and Owner representatives.

**Dates** : From Feb. 2001 till May 2002  
**Employer** : PGESCO (Power Generation Engineering and Services Co.),  
Egyptian engineering company partially owned by BECHTEL POWER of  
USA.  
**Project** : Different Projects  
**Job title** : Power Plants Electro-Mechanical Control Systems Specialist  
**Job Description** : 

- Participated in the development of a number of power plant projects. Worked in Bechtel's offices in Frederick, MD, USA for 2 months during the Engineering Kick-off phase of Cairo North (I) Power Plant project (750MW).

**Dates** : From Feb. 1999 till May 2001  
**Employer** : PGESCO (Power Generation Engineering and Services Co.),  
Egyptian engineering company partially owned by BECHTEL POWER of  
USA.  
**Project** : Sidi Krir I & II (2x320MW gas/oil fired steam cycle power plant)  
**Job title** : Project Engineer  
**Job Description** : 

- Coordinating all the project Engineering activities including Civil, Mechanical, Electrical and Instrumentation issues with construction team, start-up team, all contractors, suppliers and the Client (EEA), during the construction completion and stat-up phase of the project. At this stage the operating logics and procedures were the major coordination issues.

**Dates** : From Jun. 1994 till Feb. 1999  
**Employer** : PGESCO (Power Generation Engineering and Services Co.),  
Egyptian engineering company partially owned by BECHTEL POWER of  
USA.

- Projects** :
  - Sidi Krir I & II
  - Ayoun Moussa I & II(each 2x320MW gas/oil fired steam cycle power plant)
- Job title** : Control Systems Engineering Group Supervisor
- Job Description** : Control System Engineering Group Supervisor coordinating a group of 5 to 8 engineers activities with other disciplines, Contractors and the Client in:
- Finalizing contracts of Turbines, Gas/Oil fired Steam Generators, Civil Works, Mechanical Works, Emissions Monitoring, Electrical Works, High, Medium and Low Voltage equipment, HVAC, Emergency Diesel Generators, overhead Cranes, etc.
  - Contractors' design review. Design review was performed against contracts technical specification, contracts general and special conditions, Codes and Standards, Good Engineering Practices, environmental requirements and interface requirements.
  - Detailing the plant instrumentation and electrical design (Logic Diagrams, I/O list, Instrument Index, Data sheets, Level Setting Diagrams, Cable Block Diagrams, Electrical Schematics).
- Dates** : From Jun. 1994 till May 1995
- Employer** : Bechtel's office in Gaithersburg, MD, USA
- Projects** : Sidi Krir and Ayoun Moussa Power Plants Design
- Job Description** :
  - Participating with Bechtel's engineers in developing the project's specification and conceptual design.
- Dates** : From Oct. 1990 till May 1994
- Employer** : Permutit Egypt - Water & Waste Water Treatment Contracting Company
- Projects** : Factory 200 Sewage Treatment Plant / Swiss Village Sewage Treatment Plant / Suhag City Chlorination Plant and others.
- Job title** : Project Engineer plus part time Electrical / I&C Design Engineer
- Job Description** :
  - Planning and coordinating all engineering, procurement and construction activities within the company and with clients, suppliers and contractors to execute and hand-over sewage treatment plant projects to clients, for a number of projects. Meanwhile, responsible for the design of the electrical and control systems of all the company projects.
- Dates** : From Sep. 1989 till Sep. 1990
- Employer** : Overseas Bechtel Inc. / Electrical Power Systems Eng. Company (EPS) Consortium – Owner's Engineer
- Project** : Damietta Combined Cycle Power Plant (1.200MW)
- Job title** : Power Plant Electro-Mechanical Instrumentation and Control Engineer
- Job Description** :
  - Responsible for the steam cycle power plant electrical and instrumentation Contractors' design reviews and participating in the Mechanical systems operating logics design review.
  - Participated in Electrical/Instrumentation contract negotiations and finalization in Bechtel's office Gaithersburg, MD, USA (Sep. till Nov. 1989). Bechtel was the Owner's engineer of the project.

**Dates** : From Feb. 1989 till Sep. 1989  
**Employer** : Gilbert Commonwealth International Inc. - EPC Contractor  
**Project** : 500KV substations rehabilitation project  
**Job title** : Construction Manager Technical Assistant  
**Job Description** : 

- Responsible for coordinating engineering issues with client and consultant, obtaining client approvals and release of drawings to subcontractor for construction.

**Dates** : From Dec. 1988 till Feb. 1989  
**Employer** : Sadelmi Cogepi - Construction Contractor  
**Project** : Talkha Combined Cycle Power Plant (2x50MW Steam Turbines phase)  
**Job title** : Power Plant Electro-Mechanical Instrumentation and Control Engineer  
**Job Description** : 

- Participated in field instruments and control valves calibration and start-up.

**Dates** : From May 1988 till Dec. 1988  
**Employer** : Daelim Industrial Co. Ltd. - Electrical Works Construction Contractor  
**Project** : Shoubrah El-Kheima Power Plant Unit 4 (315 MW)  
**Job title** : Power Plant Electro-Mechanical Instrumentation and Control Engineer  
**Job Description** : 

- Responsible for the plant Programmable Logic Controller (PLC) maintenance and startup activities. The PLC was controlling logic operation of all plant equipment, other than the Boilers and Turbines, i.e. pumps, valves, compressors, heaters, screens, alarms, etc.

**Dates** : From Jul. 1986 till Dec. 1987  
**Employer** : Electrowatt Engineering Services Ltd. - Owners' Consultant for Attaka (600MW)  
**Project** : Suez (Attaka) Power Plant Unit 3 (300MW)  
**Job title** : Power Plant Electro-Mechanical Instrumentation and Control Engineer  
**Job Description** : 

- Performed site supervision of Electro-mechanical systems installations and participated in site design review of I&C documentation and equipment operation logic diagrams.

**Dates** : From Aug. 1982 till Jun. 1986  
**Employer** : 

- Egyptian Electricity Authority
- "DK" (American Grain Dischargers Manufacturer), Egypt (Part time)
- Consulting Engineering Center (Part time)

**Projects** : 

- Cairo West Power Plant (4x80MW), Shoubrah El-Kheima Power Plant (3x315MW)
- Grain Discharging Unit Control Systems, Erection of 250 t/h grain discharger, "DK" factory in USA.
- Various

**Job title** : 

- Assistant Shift Engineer, Site Supervisor, Instrumentation and Control Maintenance Engineer
- Maintenance Engineer (Part time)
- Design Engineer (Part time)

**Job Description** : • Assistant shift engineer / Site supervision of construction and startup / I&C maintenance engineer, specialized in Programmable Logic Controllers / Maintenance engineer for grain discharging units' control systems / Electrical design works for residential and industrial projects.

**Field of experience:**

28 years experience started in power plants and water treatment plants' electrical and mechanical equipment operation, maintenance, start-up and moved to detailed engineering and engineering management.

- Preparation of specifications and contracts.
- Generating detailed design.
- Reviewing contractors technical design submittals against contract requirements, codes and requirements for the interfaces with others.
- Coordinating different contractors' scopes of work within the same project.
- Coordinating different engineering disciplines work in different project phases.