

Holds a B. Sc. in Mechanical Power Engineering and a Diploma in Power Station Engineering. Has about 25 years hands-on experience in Power Stations from installation of mechanical, electrical, I&C equipments through start-up, commissioning, turn over package and performance testing.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 06/08/1967  
Gender : Male  
Marital Status : Married  
Residence : Giza, Cairo

## EDUCATION

- : B. Sc. in Mechanical Power Engineering, Cairo University, 1990
- : Diploma in Power Station Engineering, Cairo University, 2014
- : Master degree in effect of water compression in gas turbine eff., Helwan University, started in 2015 (in progress)

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Steam turbine design, Speedtronic Mark V, generator excitation, Steam Turbine operation and maintenance, mechanical drive steam turbine technicians, GE Co. (from Aug. till Nov. 1996), USA.
- : The Utility Boiler Operation Training Course in B&W elpaso boiler, forced Draft / natural circulation, gas & oil fired, site training, Babcock & Wilcox Company (Aug. 1997).
- : Completed the I.D.P. on-shore Technical Training on Centrifugal Pumps and has acquired a satisfactory Knowledge about Installation, operation and maintenance of pumps, site training, Ingersol Dresser Pumps Company (from Oct. 1997 till Jan. 1998).
- : Completed Hitachi off-shore training on steam turbine (250MW): Design, Speedtronic Mark VI, generator excitation operation and maintenance, Hitachi Ltd. Company (JAPAN) (Jan./Feb. 2008).

- : Training course on planning of maintenance project (Preventive Maintenance), A.U.C. (American University Cairo).
- : Completed on-shore training (Integrated Solar Combined Cycle Power Plant (ISCC) 140MW, El-Kureimat, Egypt: from start-up to normal operation for solar system (parabolic trough type & heat transfer fluid heat exchanger), Flagsol Ltd. Company (Germany) (Jan./Feb. 2013).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2015 till now
- Employer** : UEEPC (Upper Egypt Electricity Production Company)
- Project** : Beni Suef Combined Cycle Power Station (4800MW):  
4 Modules x 1200MW, each consists of:
- Two Siemens CTG 400MW type H9001
  - Two HRSG (NEM)
  - One Siemens STG 400MW (HP, IP, LP) turbine
  - 500KV Switchyard
  - Medium and Low Voltage Switchgear
- Job title** : General Manager of Start-up, Commissioning & Operation
- Job Description** :
- Working as Mech. Owner Representative during the construction of the plant.
  - Design review for mechanical equipment's as per Contract, tracking the progress and work Quality of mechanical Contractors.
  - Following the mechanical construction, operational testing, commissioning and start-up of the plant (Siemens Gas turbine, Siemens Steam turbine, NEM HRSG in safety and proper care of equipment.
  - Responsible of warranty claims between the owner and consortium Siemens & Elsewedy.
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- Dates** : From Feb. 2015 till Oct. 2015
- Employer** : Upper Egypt Electricity Production Company (UEEPC)
- Projects** :
- El-Kureimat (1) Steam Power Station (2x627MW)
  - El-Kureimat (2) Combined Cycle Power Station (2x750MW)
  - El-Kureimat (3) Combined Cycle Power Station (2x750MW)
- Job title** : General Manager of Studies, Researches & Developing
- Job Description** :
- A complicit and taking part in executing, researches, development of electrical, mechanical and chemical studies related to power plants.
  - Supervision and proceeding of technical studies and technical specification of new power plants in UEEPC.
  - Studying and analyzing different troubleshooting in power plants.
  - Committing and implementation of environment, instruction rules of safety and healthy occupational and confirmation of high efficient work.
  - Intendancy and applying training plane for workers in different administration and supervision of training center and making issues and preparing many courses such as following:
    - Economical operation of steam turbine.
    - Economical operation of gas turbine.
    - Economical operation of combined cycle.
    - Principle of steam turbine different stages type.

- Performance of steam, gas & combined cycle.
- Types of solar energy power plants.
- Heat exchanger selection & design.
- Efficiency & heat rate of power plants.
- Steam boilers operation.
- Different types of steam generators & technical specification.
- Effect of feed water heaters in regenerative cycle.
- Gas compressors principles & application.
- Different types of pumps and application.
- Principles of heat transfer.
- Principles of thermodynamics.
- Principles of fluid turbo machinery.
- Different type of basket layer for air pre-heater in boiler efficiency.

**Dates** : From Nov. 2014 till Feb. 2015

**Employer** : Hanwha Engineering & Construction  
Power & Water Utility Company for Jubail & Yanbu (MARAFIQ)

**Project** : MARAFIQ STG Units 5 & 6 Project, Yanbu – KSA

**Job Description** :

- Responsible of warranty claims between the owner (Marafiq) and Hanwha Engineering & Construction Company.
- Preparing operation and maintenance manual for the following systems of plant:
  - Feed water system.
  - Condensate system.
  - Condensate polishing.
  - Secondary steam.
  - Process, services and potable (SWAS).
  - Condenser vacuum systems & vacuum pump.
  - Air compressor system.
  - Heaters drain & vents system.
  - Fuel oil storage & supply systems.
  - Closed cooling system.
  - Fuel Oil Storage & Supply System.
  - Flue Gas Desulphurization (FGD).
  - Selective Catalytic Reduction System (SCR).
  - Ash Handling System (AHS)\_Rev.1.
  - Turbine Extraction Steam System.
  - Main, Cold & Hot Reheat Steam system.
  - Gas Storage and Supply System.
  - Demineralization Water Plant.
  - Chemical Dosing System.
  - Fire Fighting System.
  - Urea System.
  - Electrostatic Precipitator (ESP).

**Dates** : From Jul. 2013 till Nov. 2014

**Employer** : Upper Egypt Electricity Production Company (UEEPC)

**Projects** :

- El-Kureimat (1) Steam Power Station (2x627MW)
- El-Kureimat (2) Combined Cycle Power Station (2x750MW)
- El-Kureimat (3) Combined Cycle Power Station (2x750MW)

**Job title** : General Manager of Studies, Researches & Developing

**Job Description** : • A complicit and taking part in executing, researches, development of electrical, mechanical and chemical studies related to power plants.

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- Committing and implementation of environment, instruction rules of safety and healthy occupational and confirmation of high efficient work.
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  - Economical operation of steam turbine.
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  - Economical operation of combined cycle.
  - Principle of steam turbine different stages type.
  - Performance of steam, gas & combined cycle.
  - Types of solar energy power plants.
  - Heat exchanger selection & design.
  - Efficiency & heat rate of power plants.
  - Steam boilers operation.
  - Different types of steam generators & technical specification.
  - Effect of feed water heaters in regenerative cycle.
  - Gas compressors principles & application.
  - Different types of pumps and application.
  - Principles of heat transfer.
  - Principles of thermodynamics.
  - Principles of fluid turbo machinery.
  - Different type of basket layer for air pre-heater in boiler efficiency.

**Dates** : From Apr. 2010 till Jul. 2013

**Employer** : NREA (New and Renewable Energy Authority)

**Project** : Integrated Solar Combined Cycle Power Plant (ISCC) 140MW, El-Kureimat

**Job title** : Operation Assistant Manager

**Job Description** : • Following the operational testing, commissioning and start-up of the plant (GE Gas turbine, Siemens Steam turbine, NEM HRSG, Flagsol Solar Island, ABB DCS).

- Operation the unit from start-up to normal operation.
- Train operators in safety and proper care of equipment.
- Perform isolation and safety tag-out of equipment.
- Develop a strategic plan for implementation of operation activities.

**Dates** : From Jul. 2006 till Mar. 2010

**Employer** : UEEPC (Upper Egypt Electricity Production Company)

**Project** : El-Kureimat 2 Power Station

**Job title** : Shift Charge Engineer

**Job Description** : • Working as Mech. Owner Representative during the construction, commissioning and start-up for Siemens gas turbines.

- Review all Mech. drawings & technical submittals.
- Supervise the installation of Siemens gas turbines and auxiliaries.
- Following start-up commissioning, performance test and tuning of Siemens gas turbines.

- Responsible of warranty claims between the owner and Siemens party.
- Managing plant operations & operations training.
- Develop a strategic plan for implementation of operation activities.
- Provide technical direction to assigned personal.

**Dates** : From Jul. 2001 till Jul. 2006  
**Employer** : Egyptian Operation & Maintenance Company (O&M)  
**Project** : El-Kureimat Power Station (2x627MW)  
**Job title** : Shift Charge Engineer  
**Job Description** :

- Monitor proceeding for system flushes, Steam Blow out, pneumatic & hydraulic tests.
- Following the operational testing, commissioning and start-up of the plant.
- Operation the unit from start-up to normal operation.
- Train operators in safety and proper care of equipment.
- Perform isolation and safety tag-out of equipment.

**Dates** : From May 1994 till Jul. 2001  
**Employer** : UEPEC (Upper Egypt Electricity Production Company)  
**Project** : El-Kureimat Power Station (2x627MW)  
**Job Description** :

- Start-up & Commissioning Engineer:
  - Design review for Boiler, Turbine, Generator and BOP as per contract. Tracking the progress and work Quality of mechanical contractors.
  - Follow the systems flushes, steam blows, hydraulic and pneumatic tests.
- Control Room Desk Operator:
  - Monitoring Turbine Mark V control system fisher Hp/Lp bypass boiler gas & oil fired operation.
  - Westinghouse WDPF - DCS, Large bamag water treatment, Substation 500/220/11KV, switchgear 6.3KV, MCC, UPS, DPU.

**Dates** : From May 1992 till May 1994  
**Employer** : El-Nasr Forging Industry Company  
**Job Description** : Maintenance Engineer for forging equipments, hydraulic presses, pneumatic presses, air compressors.

**Dates** : During 1991  
**Project** : Military Service