

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 13 years hands-on experience in power generation (gas and steam turbines and its auxiliaries), substation, power transformer, auto transformer, power generators and diesel generator batteries, battery charger and also in testing and commissioning.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 02/08/1979  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2001

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: MS Project  
: AutoCAD  
: Electrical engineering programs (calcolux, Doc, Lumin & Cat, etc.)  
: Designing for lighting systems (outdoor or indoor)

## TRAINING COURSES AND CERTIFICATIONS

: Hitachi steam turbine operation and maintenance, Hitachi Company, Tokyo – Japan, 5 weeks.  
: GIS 220KV operation, control, protection and maintenance (also including: protection schemes of power stations, protection of main transformers & T.L, Interlocking & sync, wiring of the substation, connecting & disconnecting of electric circuits), Siemens Limited in Egypt (on-job training), El-Kureimat Power Generation Station 750MW Combined Cycle, 5 weeks.  
: Steam turbine GE 627MW simulation, also GIS 500 & 220KV (MHI), El-Kureimat Power Generation Station 2x627MW Thermal Cycle, 2 months.

- : Siemens Gas turbine operation and maintenance (also including: PID understanding & reading, starting & shut down of GT, SEE & SFC, auxiliary systems, generators & start-up transformers, protection of GT, process control center (PCC) and dealing with emergency conditions), Siemens AG (on-job training), El-Kureimat Power Generation Station 750MW Combined Cycle, 2 weeks.
- : Preparing, estimation and continuation of projects and the visibility studies, Organization of Energy Planning (OEP), Cairo – Egypt, 3 weeks.
- : Modern Lighting Design by computer programs, Mostafa Ali Lighting Company, Cairo – Egypt, 3 weeks.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Apr. 2013 till now

**Employer** : General Electric

**Project** : Banha 750MW Combined Cycle Power Station

**Job title** : Operations Lead, Start-up & Commissioning

**Job Description** :

- Follow up the commissioning and start-up for 2x250MW GE MS9001FA, DLN-2.6+ gas turbine Dual Fuel and its auxiliaries (Liquid fuel and atomizing air system, water injection, lube oil and lifting system, fuel gas, fuel purge, APU, IPH, sealing and cooling, instrument air system, LF circulations, inlet and exhaust, heating and ventilations, IP water bath heater).
- Follow up the commissioning and testing for the generator, air leakage, bucket test, H2 cooling system. Follow up the commissioning and start-up for closed cooling system, compressor washing, hazard gases detection, fire detection and CO2 system.
- Preparing the gas turbine ready to start from A to Z.
- Mark Vle control system, tool box (signal check, forcing). Start-up and shut down.
- Material coordination.

**Dates** : From Oct. 2012 till Mar. 2013

**Employer** : [EGYPTROL](#), Commissioning Subcontractor for ANSALDO ENERGIA

**Project** : 6th October Power Station (600MW)

**Job title** : PTW Engineer (Permit To Work)

**Job Description** :

- Prepare and issue the work permits to the contractors to start executing the required works.
- Define the isolations items (electrically – mechanically) which required for doing the works with safety conditions.
- Supervision for the works permitted and confirms to follow the safety roles.
- Coordinate between the contractors during simultaneously works, also coordinate with the client if required.
- Daily renew the permits to work until finish the works and close the permit.

**Dates** : From Jul. 2012 till Sep. 2012

**Employer** : [EGYPTROL](#), Seconded to TOSHIBA Plant Systems & Services Corporation

**Project** : Sidi Krir Combined Cycle Power Station 750MW (2x2x1)  
**Job title** : Shift Engineer (Start-up & Commissioning)  
**Job Description** :

- Follow up the start-up and normal operation for closed cooling system, air compressor, HP/IP feed water pumps, LP feed water pumps, service water system, demi water pumps, circulating water system, condensate pumps, BOP (Balance of Plant), fire fitting systems, and cathode protection system.
- DCS control system for BOP using YOKOGAWA system (CENTUM CS3000).
- Supervision for the operation team.

**Dates** : From Dec. 2011 till Jul. 2012  
**Employer** : [EGYPTROL](#), Commissioning Subcontractor for ANSALDO ENERGIA  
**Project** : 6th October Power Station (600MW)  
**Job title** : Operation Engineer (Start-up & Commissioning)  
**Job Description** :

- Follow up the commissioning and start-up for 4x150MW Ansaldo gas turbine (AE V94.2) and its auxiliaries (lube oil, control oil, foul gas, ventilation systems, compressor wash).
- Follow up the commissioning and testing for the generator, SFC, SEE, main and auxiliary transformer and black start diesel.
- Follow up the commissioning and start-up for closed cooling system, air compressor and fire fitting systems.
- Preparing the gas turbine ready to start from A to Z.
- DCS control system for GT control, start-up and shut down.

**Dates** : From Jul. 2006 till Dec. 2011  
**Project** : El-Kureimat Power Generation Station 750MW Combined Cycle  
**Job Description** :

- Scope of work:
  - Electrical construction flowing up and inspection.
  - GIS Siemens operation and control 220KV.
  - Power and auxiliary transformers, HV, MV, LV switchgears, Batteries and battery charger.
  - Siemens Gas turbine 250MW operation and control.
  - Hitachi steam turbine 250MW operation and control.
  - Heat Recovery Steam Generator (HRSG) operation and control.
  - Also work a trainer for the fresh engineers.
- Electrical Engineer (from Jul. 2006 till Dec. 2011):
  - Follow up electrical installation works for Siemens GIS 220KV, power and auxiliary transformers, HV & MV switchgear, etc.
  - Follow up the testing, commissioning, start-up and operation of the substation and its auxiliaries.
  - GIS 220KV local and remote control operation.
  - Communicate with the energy dispatch center for connect and disconnect the electrical feeders.
  - Supervisor engineer for the GIS staff.
- Steam Turbine Engineer (Feb. 2010 till Dec. 2011):
  - Follow up installation works, testing, commissioning, start-up and reliability for the Hitachi steam turbine 250 MW (TCDF 40) and its auxiliaries.
  - Local and remote operation (GE Mark VI) for the steam turbine,

start-up and safe shutdown, dealing with the normal and up normal conditions as alarms, trip, etc.

- Follow up the testing, commissioning and start-up of the heat recovery steam generation (HRSG).
- Gas Turbine Engineer (Feb. 2007 till Jan. 2010):
  - Follow up installation works, testing, commissioning, start-up and reliability for the Siemens Gas turbine 250MW (V94.3A) and its auxiliaries (lube oil, hydraulic, pneumatic, foul skid, compressor wash, closed cooling system, air compressors and power feeding (MV, LV, DC, UPS and diesel generator).
  - Local and remote operation (TXP) for CTG, start-up and safe shutdown, dealing with the logic control, dealing with the normal and up normal conditions as alarms, trips, etc.

**Dates** : From Jan. 2005 till Jun. 2006  
**Employer** : Organization of Energy Planning (OEP), Cairo  
**Job Description** :

- Scope of work:
  - Energy saving, Energy audits and Energy efficiency standards.
- Electrical Engineer:
  - Energy audits for any consumer as buildings, factories.
  - Preparation of energy studies (surveys, measurements, etc.).
  - Energy saving suggestions and opportunities.
  - Power factor improvements.
  - Calculate pay back period of investments.
  - Preparing of energy efficiency standards, energy efficiency labels of electrical appliances (electrical water heaters, CFL lamps, etc.).
  - Dealing with power analyzer devices and instrumentations (electrical or mechanical) Dranez, lux meter, power factor meter, flow meter, etc.
  - Preparing and introducing a presentation of renewable energy sources and warming of energy saving and also power metering devices.

**Dates** : From Apr. 2002 till Oct. 2004  
**Employer** : Egyptian Air Force, Cairo  
**Job Description** :

- Scope of work:
  - Micro waves communication networks.
- Electrical Engineer (Field Leader):
  - Installation, commissioning, operation and maintenance of microwaves networks.
  - Operation and maintenance for diesel engine machines.

**Dates** : From Aug. 2001 till Dec. 2001  
**Employer** : Development Researches & Technology Planning Center  
**Job Description** : Planning Engineer in project of transportations arrangement in big Cairo City jointly (Japan International Co-operation Agency (JICA)).