

Holds a B. Sc. in Electrical Power Engineering and has over 10 years hands-on experience working in operation and start-up.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 10/01/1984  
Gender : Male  
Marital Status : Married  
Residence : Currently Dubai – UAE

## EDUCATION

: B. Sc. in Electrical Power Engineering, Mansoura University, 2006

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Training course under the direction of the steam turbine, which covered the following:
- Turbine governing system.
  - Operation of steam turbine.
  - DEH Control.
  - ATS Control.
  - Turbine Inter lock.
  - Turbine Control System.
  - Auxiliary Equipment control.
  - MHI Factories tours.
  - General description of steam turbines.
  - Surface condenser.
  - Gland steam condenser & fan.
  - Lube oil cooler.
  - Condenser vacuum pump.
  - Lube cleaning system.
  - Debris filter.

- Condenser water vacuum pump.
- : Training Course under the direction of Mitsubishi Electric Corporation Energy Systems Center, which covered the following topics:
  - Operation for Generator & Generator Auxiliary Systems.
  - Maintenance for Generator & Generator Auxiliary Systems.
  - Generator Design & Structure.
  - Generator Auxiliary Systems.
  - Generator Excitation Systems.
  - Generator Protection & Control Systems.
- : On-shore in Nubaria Power Station under the direction of Mitsubishi Electric Corporation Energy Systems Center, which covered the following topics:
  - Generator Design & Structure.
  - Generator Auxiliary Systems.
  - Maintenance for Generator & Generator Auxiliary Systems.
  - Operation for Generator & Generator Auxiliary Systems.
- : On-shore in Nubaria Power Station under the direction of Mitsubishi Heavy Industries, which covered the following topics:
  - Steam Turbine Gland Sealing and Vacuum Up Test.
  - Steam Turbine Rolling and Speed Up Test.
  - By Pass Operation.
  - No Load Operation.
  - Part Load & FULL LOAD OPERATION.
  - 25%, 50%, 75% and 100% Load Rejection Test.
  - Normal Operation & Troubleshooting.
- : Basic Operation Training for Gas Turbine V.94.3A under the direction of Siemens PG in Nubaria, Egypt, which covered the following:
  - Gas Turbine.
  - Plant operation.
  - Introduction to the plant.
  - Electrical and I&C part.
- : On-shore in Nubaria Power Station 3 under the direction of ALSTOM Power Service, Commissioning department (Mar. 2010).
- : Desalination start-up & shut down simulator (Training Course under Dewa).
- : Training Courses in Nubaria Power Station Site in:
  - Service & Instrument Air Compressors by Initec Energia.
  - Service, raw and closed cooling pumps.
  - Fuel gas and fuel oil.
  - Emergency Diesel generator.
  - First Aid training & fire warden training & Result Orientation & fire Extinguisher.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2012 till now
- Employer** : DUBAI Electricity and Water Authority (DEWA)
- Project** : K-STATION IN PLANT (2):
- SIEMENS gas turbine SGT5-4000F (3x250MW) V94.3A
  - SIEMENS Back Pressure Steam turbine (2x150MW)
  - 3 waste heat recovery boiler (HESG) Alstom Boiler
  - One Thermal Power Plant (ALSTOM steam turbine 230MW)

- Sea Water intake area (8 pumps) with 3 - Rack screens (RS) and travel band screens (TBS)
  - Desalination plant (5 x 14.7 MIGD) by FISIAITALIMPIANTI CO.
  - MV 11KV & 380 V electrical switchgear
  - Gas reducing station with gas compressor & N2 purge (NGPRS)
  - Water treatment station (mixed bed filter, demy water, chlorination plant)
  - 2- Emergency diesel generator (EDG)
  - Fire pumps (jockey p/p, electrical p/p, diesel p/p)
  - Potable water pumps
- Job title** : Senior Power Station Operator
- Job Description** :
- Carry out start-up, shutdown and emergency operation of the plant and equipment as per operating procedure.
  - Monitor record and maintain operating parameters/activities in order to control and achieve reliable and efficient operations.
  - Co-ordinate between am-so and ps operators for the proper isolation of equipment, preparation, placing of safety tags & normalizing the equipments.
  - Reporting abnormalities and defects to supervisors & take correct action.
  - Issuing of PTW & proper mechanical, instrumental and electrical isolation/normalizing of equipments during start-up/shutdown.
- Dates** : From Feb. 2008 till Feb. 2012
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : Nubaria Power Station (3x750MW):
- Two modules, each module consists of:
    - Two Siemens combustion gas turbines 250MW type V94.3a
    - Two Alstom horizontal type heat recovery steam
    - One Mitsubishi steam turbine 250MW type TC2F HP, IP and LP steam lines
  - One module consists of two GE combustion gas turbines 250MW type 9FA
  - 220KV switchyard
  - 500KV switchyard
  - Four tie transformers 500/220KV
  - Medium (6.3KV) and low (400 V) voltage switchgear
- Job title** : Gas Turbine Operation Engineer  
(Shift Engineer, then Shift Charge Engineer)
- Job Description** :
- Follow the Dispatch Load Request.
  - Perform Periodical Test.
  - Start-up and Shut down of the Units.
  - Detect and diagnose malfunction of equipments and prepare for work orders.
  - Operate the units even in case of abnormal operation.
  - Collect and analyze periodical data.
  - Follow and deal with Alarms in Central Control Room.
  - Perform Necessary Measures and Checks out before Equipments Start-up.
  - Follow Operation Specifications.
  - Analyze Equipment Efficiency and performance.
  - Application of Validated Procedures.

- Analysis of all Necessary Information about Local Sites.
- Operations of high, medium, and low voltage switchgears and load centers.
- Very good dealing with Siemens engineering logic work station.
- Excellent knowledge of DCS systems.
- Wide knowledge of Operation of combined steam cycle.
- Operate units' auxiliaries (Feed systems, Air Compressors, cooling systems, circulating water systems, condensate systems, boiler systems, turbine systems, fuel system, generator systems and electrical systems and all related Utilities).
- Issue equipment clearances and work permits Develops and implements plant operating procedures.
- Besides I do training courses for new engineers and technicians.
- Operation Engineer in NUBARIA Combined Cycle Power Station, responsible for:
  - Mitsubishi Steam Turbine (2x250MW) commissioning, start-up, reliability, performance tests and operation.
  - Basic Operation of Siemens Gas Turbine (4x250MW) Type V94.3A.
  - Basic Operation of ALSTOM horizontal type heat recovery steam generator.
  - Attending of Siemens gas turbines fuel gas tuning and first start.
  - Attending of Siemens gas turbines burners cleaning (chemical & thermal).
  - Attending of Siemens gas turbines minor & hot gas path inspections.
- Construction Engineer in NUBARIA Combined Cycle Power Station:
  - Responsible of reviewing all technical submittals and inspection types of valves and pumps as TERMOMECHANICA and KSB pumps.

**Dates** : From Mar. 2007 till Jan. 2008

**Employer** : United Prossing Oil & Packing in 10<sup>th</sup> of Ramadan Industrial City

**Job Description** : Operation & Maintenance Engineer for injection and blowing machines to product plastic.