

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 11 years experience working as DCS Operator / Control Room Operator / Shift Leader Engineer at West Damietta Power Plant.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 11/08/1988  
Gender : Male  
Marital Status : Married  
Residence : Damietta

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Institute of Aviation Engineering & Technology, 2011

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : GE Steam Turbine D202 Operation, GE Energy, West Damietta Power Plant (Sep./Oct. 2019).
- : ANSALDO Operation Course Program (Steam Turbine, Generator, Excitation, ACC, By-Pass System), ANSALDO Energia, West Damietta Power Plant (Sep./Oct. 2018).
- : Mark VIe Control System, GE Energy, West Damietta Power Plant (Apr. 2018).
- : Combined Cycle Operations (DOOSAN HRSG, BOP, Steam Turbine D202, Generator, Generator Hydrogen Operations, CC Start-up & Shutdown), GE Energy, West Damietta Power Plant (Mar. 2018).
- : Training program (for combined cycle DCS) in the following topics: 5001 EVO Configuration Essentials / 5300 EVO Process Operation / 5200 EVO Equipment Maintenance / 5612 EVO Control Editor, Schneider Electric (formerly INVENSYS), Sesto San Giovanni, Milano, Italy (May/Jun. 2017).
- : HRSG Operation (design, I&C, pressure parts, valves and actuators, main components), AC BOILERS (formerly Ansaldo Caldaie), Gallarate, Varese, Italy (Sep./Oct. 2016).

- : GE EX2100 Generator Regulator & Generator Protection Panel (GPP), GE Energy, West Damietta Power Plant (Nov./Dec. 2015).
- : Gas Turbine Generator Operation, GE Energy, West Damietta Power Plant (Jun. 2015).
- : Hydrogen Generator Fundamentals of Operation and Maintenance, HOGEN H-Series Hydrogen Generation Systems, West Damietta Power Plant (Feb. 2018).
- : Emergency Diesel Generator System (EDG), West Damietta Power Plant (Oct. 2016).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2016 till now
- Employer** : East Delta Electricity Production Company (EDEPC)
- Project** : West Damietta Combined Cycle Power Plant
- Job title** : Shift Leader Engineer
- Job Description** :
- Assure safe and sustainable operation of West Damietta Power Plant includes:
    - 1x265MW steam turbine D202 – GE.
    - 1x265MW steam turbine MT20 – Ansaldo.
    - 4 x horizontal HRSG by Doosan.
    - 4 x horizontal HRSG by AC Boilers.
    - 8x125MW gas turbine (GE frame 9E).
    - 2 x 220KV GIS: Operating on (one & half) breaker scheme connecting and disconnecting (SF6 CB, Switches, Earthing Switches) by Hyundai & Alstom.
    - Water Treatment Plant (RO – Demin – Potable – Industrial waste).
    - Instrument compressed air system by Atlas Copco.
    - 220KV / 15KV, 15KV / 6.6KV, 6.6KV / 400V transformers.
    - Medium voltage (6.6KV) substations and low voltage (400V) substations.
    - Emergency diesel generators.
  - Monitor plant operations through DCS to ensure that everything is working properly, fixing and trouble-shooting operations, tracking and logging operational systems, monitoring emissions and making recommendations.
  - Oversee, monitor, control and optimize the processes of the site through remote control of equipment and communication with all shift members.
  - Coordinate relation between operation management and maintenance sections to apply maintenance activities.
  - Manage communication with the dispatch to control start-up, shutdown, loading, unloading and emergencies for the plant.
  - Attended construction and commissioning of converting existing simple cycle to combined cycle at two projects:
    - 1<sup>st</sup> Project Ansaldo Energia:
      - ❖ 4 x horizontal HRSG - AC Boilers (4x125MW GE frame 9E).
      - ❖ 1 x steam turbine MT20 - Ansaldo (1x265MW).
    - 2<sup>nd</sup> Project GE:
      - ❖ 4 x horizontal HRSG - Doosan (4x125MW GE frame 9E).

- ❖ 1 x steam turbine D200 - GE (1x265MW) operated by GE mark V1e control.
- Working with equipment (at both projects) including gas turbine, steam turbine, heat recovery steam generator (HRSG), Electrical generator, BOP, ACC, HV equipment and control system:
  - HRSG Hot passivation.
  - Steam Blow Operation.
  - ACC hot cleaning.
  - Bypass Operation.
  - Steam turbine start-up.
- Able to support commissioning activities working with subcontractors and other staff.
- Following up the commissioning of new systems equipment.
- Witnessed all the construction and commissioning procedures.
- Witnessed electrical and instrumentation tests.
- Review subcontractors daily progress report.

**Dates** : From Oct. 2012 till Dec. 2016

**Employer** : East Delta Electricity Production Company (EDEPC)

**Project** : West Damietta Combined Cycle Power Plant

**Job title** : Operation Engineer

**Job Description** :

- Worked as DCS Operator: Gas Turbine 8x125MW (GE frame 9E): Gas Turbine 125MW (GE MS9001EA) operated by GE mark V1e control:
  - Executing routine check on field equipment.
  - Carrying out starting and shutdown sequences.
  - Ensuring safe operation of the gas turbine and its auxiliaries.
  - Rapid intervention in case a problem occurs.
  - Ensuring safety conditions before Maintenance.
  - Assisting Maintenance staff as required.
  - 220KV GIS: Operating on (one & half) breaker scheme connecting and disconnecting (SF6 CB, Switches, Earthing Switches).
  - Firefighting systems including (CO2 system, Deluge system).
  - Emergency diesel generators:
    - ❖ 2 x 2000KVA (6.6KV) by MTU.
    - ❖ 2 x 2500 KVA (6.6KV) by SSDMO.
    - ❖ 1 x 1600 KVA (400V) by CTM.
    - ❖ 1 x 1500 KVA (400V) by COELMO.
  - METSO DCS system.
  - 220KV/15KV, 15KV/6.6KV, 6.6KV/400V transformers.
  - Battery system and battery chargers.
  - Auxiliaries of the plant including different types of (motors, pumps, valves and control devices).
- Worked as Control Room Operator: Operating gas turbines (GE frame 9E) systems.
- Attended construction and commissioning of DRY LOW NOx (DLN) at GE FRAME 9E.
- Attended construction and commissioning of GT hot gas path outage.