

Holds a B. Sc. and a Diploma in Electrical Power & Machines Engineering and has over 15 years' experience working in operation, commissioning and start-up at Combined Cycle Power Plants (Gas Turbines, Heat Recovery Steam Generators HRSGs, Steam Turbines and Auxiliaries).

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 24/12/1983  
Gender : Male  
Marital Status : Married  
Residence : Currently Iraq

## **EDUCATION**

- : B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2006
- : Diploma in Electrical Power & Machines Engineering, Tanta University, 2018

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

- : Windows, MS Office, Internet
- : Matlab programming
- : Inverter operation

## **TRAINING COURSES AND CERTIFICATIONS**

- : GE Gas turbine & generator operation in Belfort – FRANCE.
- : GE SPEEDTRONIC TM MARK VIe (ETS) GT operation in Belfort – FRANCE.
- : GE EX2100e Excitation and LS2100 Static Starter in Belfort – FRANCE.
- : SIEMENS Gas turbine & generator operation in Middle Delta Electricity Production Company Training Center.
- : Attend the training in Ansaldo Caldaie HRSG OPERATION (design, I&C, pressure parts, valves and actuators, main components, parcol, ABB) in Gallarate – ITALY.
- : Attend the training and stand the final test in HP/IP – LP BOILER FEED PUMPS AND CONDENSATE EXTRACTION PUMPS.
- : Attend the training in HYUNDAI HEAVY INDUSTRIES jobsite training program for testing and operation of 245KV GIS.

- : Attend the training in ABB ITALY CENTER in concerning operation and configuration of pressure transmitters 266 series temperature transmitters TTF300 hand held terminal DHH805.
  - : Training course in occupational safety and health, Banha Power Station, Egypt.
  - : Training course in construction, maintenance and operation of Vertical pumps (CWP, SWP & RWP), Hyundai Pump Company, Banha Power Station, Egypt:
- The on-site training course contents of:
- Electrical Operation & Maintenance for Medium and low voltage switch gears all panel and system.
  - Operation & Maintenance in Class Training and On-Site for the turbine, generator, Transformer.
  - Training of all component and auxiliary of the power station.
  - Generator Protection Functions and Synchronizing Panel training.
  - Operation & Maintenance in Class Training and On-Site for the transformers.

## CHRONOLOGICAL EXPERIENCE RECORD

<b>Dates</b>	: From Nov. 2022 till now
<b>Employer</b>	: Bonatti
<b>Project</b>	: Iraq Rumaila Power Plant (5 gas turbines GE 6 Simple Cycle) and Gas Treatment Plant
<b>Job title</b>	: Shift Charge Engineer
<b>Job Description</b>	: <ul style="list-style-type: none"> <li>• Gas treatment plant.</li> <li>• Fuel gas compressor.</li> <li>• Exporting condensate system.</li> <li>• H2S analyzer system.</li> <li>• Five gas turbine (5x35MW) frame 6 with mark vie.</li> <li>• Switch gear HV 132KV one breaker type and medium voltage 11KV.</li> <li>• The plant feeds 6 oil fields.</li> </ul>
<b>Dates</b>	: From Mar. 2021 till Oct. 2022
<b>Employer</b>	: Middle Delta Electricity Production Co.
<b>Project</b>	: Banha Power Plant
<b>Job title</b>	: Shift Charge Engineer
<b>Job Description</b>	: Dealing, monitoring, troubleshooting and control the operation of 750MW combined cycle power station using DCS system as the following: <ul style="list-style-type: none"> <li>• Two 250MW GE gas turbine units.</li> <li>• One 250MW Ansaldo Energia steam turbine unit.</li> <li>• Two horizontal Ansaldo Caldaie boiler.</li> <li>• Four outgoing circuits 220KV.</li> <li>• 245KV GIS, Gas Insulated Switchgear.</li> <li>• Protection Devices System: Over Current, Differential, Distance and Bus Bar protection system.</li> </ul>
<b>Dates</b>	: From Feb. 2020 till Mar. 2021
<b>Employer</b>	: Ansaldo Energia

**Project** : Damietta Power Plant  
**Job title** : Commissioning & Start-up Operation Engineer  
**Job Description** : Commissioning and start-up for:

- One 650MW Ansaldo Energia steam turbine unit with air cooled condenser (ACC).
- Four Horizontal Heat Recovery Steam Generators HRSGS Ansaldo Caldaie.
- Auxiliaries.
- Performed all tests on STG:
  - Partial Stroke test.
  - Total Stroke test.
  - Tightness test.
  - Trip Block test.
  - Over Speed (110% & 112%) tests.
  - House load - Hot cleaning for ACC.

**Dates** : From May 2018 till Feb. 2020  
**Employer** : Ansaldo Energia  
**Project** : 6<sup>th</sup> October Power Plant  
**Job title** : Commissioning & Start-up Operation Engineer  
**Job Description** : Commissioning and start-up for:

- One 325MW Ansaldo Energia steam turbine unit with air cooled condenser (ACC).
- Four Horizontal Heat Recovery Steam Generators HRSGS Ansaldo Caldaie.
- Auxiliaries.
- Perform first operation tests and first start-up for:
  - Lube oil system.
  - Vacuum system.
  - Gland steam condenser.
  - Making first rolling for STG.
  - Making first synchronization for STG.
  - Steam Blowing for Ansaldo Caldaie HRSGs & Steam Piping.

**Dates** : From Feb. 2018 till Apr. 2018  
**Employer** : Schneider Electric  
**Project** : Zohr Project  
**Job title** : Electrical Commissioning Engineer (oil & gas)  
**Job Description** : Commissioning all Electrical loop checking and tests for the:

- MV Switchgear 6.6KV (Schneider).
- Power transformers test.
- LV switchgear & MCC block set 400V (Schneider).

**Dates** : From Jul. 2017 till Jan. 2018  
**Employer** : Egyptian Maintenance Company (EMC)  
**Project** : Attol Project in PHPC  
**Job title** : Electrical Commissioning Engineer (oil & gas)

- Job Description** : Perform all Electrical loop checking and tests for the:
- MV Switchgear 6.6KV (Schneider).
  - Power transformers test.
  - LV switchgear & MCC block set 400V (Schneider).
  - UPS 220v & Battery Charger 110v dc.
  - Lighting & Small Power Systems.
  - Earthing & Lightning Systems.
  - EX. proof electric motors LV Motors.
- Dates** : From Oct. 2012 till Jul. 2017
- Employer** : Middle Delta Electricity Production Company
- Project** : Banha Power Plant
- Job titles** :
- Commissioning & Start-up Operation Engineer (from Oct. 2012 till Dec. 2013)
  - Gas Turbine GE Operation Engineer (from Dec. 2013 till Oct. 2014)
  - Steam Turbine Operation Engineer (from Oct. 2014 till Oct. 2016)
  - Supervisor Operation Engineer (from Oct. 2016 till Jul. 2017)
- Job Description** :
- Perform first operation tests and first start-up for:
    - Lube oil system.
    - Seal oil system.
    - Vacuum system.
    - Water box vacuum system.
    - Gland steam and gland steam condenser.
    - Debris filter.
    - Tube cleaning system.
    - Charging H2 for generator.
    - Making first rolling for STG.
    - Making first synchronization for STG.
  - Steam Blowing for STF HRSGs & Steam Piping.
  - Commissioning, Start-up and Operation for HRSG & Steam Turbine.
  - Attending First Rolling to Steam Turbine with Ansaldo Energia Operator Engineers.
  - Operate units' auxiliaries (Feed systems, Air Compressors, Cooling Systems, Circulating Water Systems, Condensate Systems, Boiler systems, Turbine Systems, Fuel system, Generator Systems, Electrical Systems and all related Utilities).
- Dates** : From Mar. 2008 till Oct. 2012
- Employer** : Middle Delta Electricity Production Company
- Project** : Nubaria Power Plant
- Job title** : Gas Turbine Operation Engineer
- Job Description** : Dealing, monitoring, trouble shooting and control the operation of 750MW combined cycle power station using DCS system as the following:
- FOUR SIEMENS gas turbines x 250MW type (V94.3A) turbine.
  - TWO steam turbines 250MW.
  - Eight outgoing circuits 220.
  - Two step-up transformer 15.75/500KV.
  - KV and two outgoing circuits 500KV.
  - Medium and low voltage switch gears (6.3KV, 400v).
  - 500KV switch yard and 220KV switch yard.

- Two auxiliary transformers & excitation transformer.

- Field of experience :**
- Attending of two GE gas turbines x 250MW construction, start-up, commissioning and reliability test.
  - Attending of Ansaldo Energia steam turbine 250MW construction, start-up, commissioning and reliability test.
  - Attending of gas turbines change over from gas to oil fuel.
  - Attending of Ansaldo Caldaie HRSG Steam Blow.
  - Attending of GE gas turbines Minor & Hot gas path inspections.
  - Attending of construction, start-up, commissioning and reliability test for medium and low voltage switch gears electrical panel.
  - Attending of construction, start-up, commissioning, first energize for the transformers.
  - Attending of lighting system construction, commissioning.
  - Received the spare parts of the electrical equipment and inspect it.
  - Attending of construction, start-up, commissioning for the generators.
  - Attending of construction, start-up, commissioning for all (motor, pump).