

Holds a B. Sc. in Mechanical Power Engineering and a Diploma in Turbomachinery Engineering. Has over 12 years' experience working in maintenance, operation and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 17/10/1987
Gender : Male
Residence : Currently Iraq

EDUCATION

: B. Sc. in Mechanical Power Engineering, Zagazig University, 2010
: Diploma in Turbomachinery Engineering, Zagazig University

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD 2D
: Solid Works
: Matlab

TRAINING COURSES AND CERTIFICATIONS

: PMP
: Maintenance, Reliability and Asset Management certified by RES Global.
: Occupational Safety and Health Diploma (OSHA) certified by ISEP.
: Instrumentation Process Measurements.
: Turbomachinery.
: Bearing Basics certified by SKF.
: Lubrication Basics certified by SKF.
: Machine Condition Advisor certified by SKF.
: Vibration Basics certified by SKF.
: BFS system.
: Hydraulic and pneumatic.
: Power and control.

- : HVAC.
- : Fire Fighting.
- : 6 months training located in Egypt and Germany for SIEMENS MEGA PROJECT (NEW CAPITAL COMBINED CYCLE POWER PLANT).
- : Trainings at:
 - El Arabia Co. for cables (EL SEWEDY).
 - Gulf of Suez Petroleum Co. (GUPCO).
 - Arab Organization for Industrialization (ENGINES FACTORY).
 - Al Saad Aluminum Co. in Mostorod.
 - Banha Electronics Co.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2022 till now
- Employer** : SIEMENS Energy
- Project** : Shat Al Basra Power Plant 650MW, Iraq
- Five modules, every module consists of two GE gas turbines frame 9E (125MW each) and one steam turbine SST_900 (132.7MW), two Vertical HRSGs, one water cooled condenser, and three condensate extraction pumps.
 - Each HRSG consists of LP and HP drums, three feed water pumps and three preheater recirculation pumps.
 - Three air compressors for instrument air.
 - Fire Fighting System.
 - Water treatment plant.
 - Pretreatment Plant.
 - DCS type: Ovation system for HRSG and BOP, PCS7 for ST.
- Job title** : Shift Leader, Commissioning Engineer, Permit to Work Officer for all related activities of the plant
- Dates** : From Dec. 2021 till Apr. 2022
- Employer** : SIEMENS Energy
- Project** : Rumaila Power Plant 730MW, Iraq
- Two modules, one module consists of two Siemens gas turbines SGT5_4000F (293MW each) and one steam turbine SST5_5000 (287MW), two horizontal HRSGs, one water cooled condenser, three condensate extraction pumps and three recirculating water pumps.
 - Second module consists of three Siemens gas turbines SGT5_4000F (293MW each) and one steam turbine SST5_5000 (420MW), three horizontal HRSGs, one water cooled condenser, four condensate extraction pumps and four recirculating water pumps.
 - Each HRSG consists of LP, IP and HP drums, three feed water pumps and three preheater recirculation pumps.
 - Three air compressors for instrument air.
 - Fire Fighting System.
 - H2 generation plant.
 - Water treatment plant.
 - DCS type: Ovation System for HRSG and BOP, T3000 for ST.

Job title : Shift Leader, Commissioning Engineer, Permit to Work Officer for all related activities of the plant

Dates : Oct. 2020

Employer : SIEMENS Energy

Project : New Capital Power Plant, Egypt

Job title : Gas Turbine Mechanical Maintenance Engineer

Job Description : Joining Siemens Energy modification team during the outage period to make VGV modification for GT32 of New Capital Combined Cycle Power Plant 4800MW and was responsible for:

- Taking closed gap measurements for CVC1 while upper and lower casing are installed.
- Taking clearance between coupler and inlet housing.
- Lifting of CVC1 upper casing using chain hoists and crane.
- Taking clearances between lower casing and rotor.
- Removing rotor blades stage 4.
- Lifting of CVC1 lower casing by RIRO (Roll in Roll Out).
- Removing rotor blades stage 3.
- Removing inner rings and vanes of VGV1, 2, 3 for upper and lower casing.
- Checking cracks of blades and vanes using NDT.
- Changing bushing of vanes and install lip seals instead of gaskets.
- Changing lockers and keys of rotor blades stage 1, 2, 3, 4.
- Changing lock bolt of rotor blades stage 5.
- Install all vanes for lower and upper casing with standard measurements.
- Install blades of stage 3.
- Install lower casing CVC1 by RIRO.
- Install blades stage 4.
- Install upper casing.
- Taking needed measurements after installment.

Dates : From Feb. 2019 till Dec. 2021

Employer : SIEMENS Energy

Project : New Capital Power Plant, Egypt

- Four modules, every module consists of two Siemens gas turbines SGT5-8000H (400MW each) and one steam turbine SST5-5000 (400MW), two HRSGs, one air cooled condenser (ACC), three feed water pumps and three condensate extraction pumps.
- Each HRSG consists of HP, IP and LP systems.
- Five gas compressors.
- Three air compressors for instrument air.
- N2 generation plant for seal gas of gas compressors.
- H2 generation plant.
- Water treatment plant.
- DCS type: T3000.

Job title : Shift Leader, Commissioning Engineer, Permit to Work Officer for all related activities of the plant

Dates : From Jun. 2016 till Feb. 2019
Employer : Egyptian Electricity Holding Company (EEHC)
Project : New Capital Power Plant, Egypt
Job title : Shift Charge, Commissioning Engineer
Job Description : Responsible for proper implementing of commissioning activities done for the plant before handing over like:

- Chemical cleaning commissioning.
- Steam blowing commissioning.
- Planned remote switch over of fuel gas compressors.
- Unplanned switch over of fuel gas compressors.
- Load run back after trip of feed water pump and unavailability of stand by pump.
- Load run back after trip of condensate extraction pump and unavailability of stand by pump.
- Load rejection of block to house load.
- Automatic hot startup of block.
- Automatic warm startup of block.
- Automatic preparation of block for startup.
- Automatic shut-down of block with condenser in standby.
- Load change rates of block.
- Primary frequency response of block.
- Performance test.

Dates : From May 2013 till Jun. 2016
Employer : Egyptian Electricity Holding Company (EEHC)
Project : Al-Shabab Simple Cycle Power Plant 1000MW (8 GE gas turbines type 9E, each turbine produces 125MW), Egypt
Job title : Operation Engineer
Job Description :

- Start-up, shut down, increasing and decreasing loads with coordination with dispatch.
- Doing necessary electrical and mechanical isolations for my unit.
- Taking safety precautions before starting work orders by maintenance team.
- Doing electrical maneuvers for transformers and transmission lines with coordination with dispatch.
- Washing of compressor of my unit with detergent.
- Saving proper operation of the plant and checking for alarms or faults in control room or in the field.

Dates : From Jul. 2015 till Aug. 2015
Employer : Egyptian Electricity Holding Company (EEHC)
Project : Attaqa Simple Cycle Power Plant (4 SIEMENS gas turbines SGT5-2000E) (4x165MW), Egypt
Job title : Gas Turbine Mechanical Commissioning Engineer
Job Description : Responsible for supporting the owner team as a Mechanical Commissioning Engineer for two months while installation and commissioning of the plant before handing over.

Dates : From Nov. 2011 till May 2013
Employer : Egyptian Electricity Holding Company (EEHC)
Project : Al-Shabab Old Simple Cycle Power Plant 100MW (3 gas turbines type BBC, each turbine produces 33MW), Egypt
Job title : Operation Engineer
Job Description :

- Start-up, shut down, increasing, and decreasing loads with coordination with dispatch.
- Saving proper operation of the plant and checking for alarms or faults in control room or in the field.
- Doing electrical maneuvers for transformers and transmission lines with coordination with dispatch.

Dates : From Feb. 2012 till Apr. 2012
Employer : Egyptian Electricity Holding Company (EEHC)
Project : Al-Shabab Old Simple Cycle Power Plant 100MW (3 gas turbines type BBC, each turbine produces 33MW), Egypt
Job title : Gas Turbine Mechanical Maintenance Engineer
Job Description : Joining mechanical maintenance team while major inspection (Overhaul) of unit 2 of the plant for three months and was responsible for:

- Lifting upper casing.
- Taking measurements of clearances before lifting the rotor.
- Lifting the rotor.
- Lifting lower casing.
- Dismounting of vanes and blades.
- Inspection of vanes, blades and bearings by NDT.
- Installation of lower casing, rotor, upper casing after inspection finished and adjusting measurements to standards.

Dates : From Oct. 2010 till Nov. 2011
Employer : Al Saad Aluminum Co. – Qalubia, Egypt
The factory consists of four mechanical hydraulic pistons used for heating aluminum bullets in furnaces and pressing them into mechanical molds to get different shapes of aluminum sheets.
Job title : Mechanical Maintenance Engineer
Job Description : Mechanical Maintenance of pumps, compressors, hydraulic and pneumatic valves, pistons to maintain and save the production process.

Field of experience :

- Shift Leader, Commissioning Engineer, Permit to Work Officer for all related activities in power plant.
- Start-up, shut-down, commissioning of the combined cycle plant with coordination with all plant departments.
- Meeting with managers and discussing and investigating faults and how to improve performance of the plant.
- Following up proper implementing of safety precautions before starting work orders by maintenance team.
- Following up proper implementing of necessary electrical and mechanical isolations done by my team.
- Discussing and writing operation procedures for plant systems with coordination with all staff.

- Creating and verifying fault notifications done by my team and other departments.
- PTW Issuer (creating isolations and issuing work orders) according to BFS system.
- Fast acting in emergency cases.
- Training of fresh engineers and technicians.