

100095-MEC-18CMOS-E-2009
Senior Mechanical Field Service Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 14 years experience, including 11 years working in construction, maintenance and commissioning at Al-Shabab CCPP.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/07/1987
Gender : Male
Marital Status : Married
Residence : Ismailia

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2009

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D & 3D
: Solid Works

TRAINING COURSES AND CERTIFICATIONS

: Gas turbine maintenance technology, generator and auxiliaries by GE Power & Water (Belfort - FRANCE).
: Maintenance of Steam Turbine, generator, Air Cooled Condenser and Auxiliaries by ANSALDO ENERGIA (Genoa - ITALY).
: Project Management Professional (PMP) 36 Hrs.
: Welding Technology & Non-Destructive Testing by Expertise of Egyptian/Swedish Association for friendship and international co-operation (Cairo - Egypt).
: Welding various type of welding.
: Fuel treatment course (Oil & liquid fuel Purification System) by ALFA LAVAL customer training.
: Vibration - Alignment - Balance.
: Hydraulic control system by Expertise of Egyptian/Swedish Association for friendship and international co-operation (Cairo - Egypt).

- : Maintenance and repair of mechanical equipment for plants of Drinking water and Sewage by Ministry of Housing, Utilities and Urban Development - National Authority for Drinking Water and Sanitation (Cairo - Egypt).
- : Trainee in Production & Maintenance Vehicles by General Agent for Mercedes Benz AG Commercials (ISALEHYA - Egypt).
- : Activation pragmatic program Alamblisema by East Delta Electricity Production Company (Egypt).
- : Types of Bearings by East Delta Electricity Production Company (Fayed - Egypt).
- : ICDL

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2012 till now
- Employer** : East Delta Electricity Production Company
- Project** : AL-SHABAB CCPP 1500MW
- Job title** : Senior Mechanical Field Service Engineer
- Job Description** : Directing the maintenance team, developing a maintenance plan and organizing spare parts for:
- 8 Gas Turbines GE frame 9EA (1000MW) 8 units x 125MW and their auxiliaries' system.
 - 3 gas turbine Alstom/ABB/BBC, Model 9D.
 - Generators (Elin type 9A4 and 9A5) and (Brush type BDAX9-450ERH) Water-to-Air-Cooled with Brushless Excitation and their auxiliary's system.
 - 2 steam turbines (MT20) 500MW and their auxiliaries (ANSALDO ENERGIA).
 - 2 generators type THR-L45 (cooled by H2) and their auxiliaries (seal system, H2-CO2 system and ELEGA system).
 - 2 AIR cooled condenser with dimension (106m x72m x36m) and 35 fans with their gear box and their auxiliaries (Evacuation System and cleaning system) (ENIXO - GIA).
 - Water desalination plants (reverse osmosis - RO) (3x157 m3/h).
 - Firefighting system.
 - Sewage system and industrial drainage.
 - Oil purification system:
 - (ALFA LAVAL OIL SEPERATOR) OCM 2100 liter/hr.
 - GEA Westfalia Separator.
 - Rotating equipment (all types of pumps, all types of compressors (centrifugal or positive displacement) like atlas copco, gear box like Skoda and flender).
 - Static equipment (valves, heat exchangers, filters).

- Dates** : From Mar. 2023 till now
- Employer** : Field Core Co. (GE) with East Delta Electricity Production Co.
- Project** : AL-SHABAB Combined Power Plant 1500MW - Ismailia
- Job title** : Senior Field Service Gas Turbine Engineer
- Job Description** :
 - Performing hot gas path inspection (HGPI) for gas turbine frame 9EA.
 - Performing modification on combustion system.

- Dates** : From Feb. 2023 till Mar. 2023
Employer : Field Core Co. (GE) with East Delta Electricity Production Co.
Project : AL-SHABAB Combined Power Plant 1500MW - Ismailia
Job title : Senior Field Service Gas Turbine Engineer
Job Description : Performing combustion inspection (CI) for gas turbine frame 9EA.
- Dates** : From Jun. 2022 till Oct. 2022
Employer : ANSALDO THOMASSEN Co. with East Delta Electricity Production Co.
Project : AL-SHABAB Combined Power Plant 1500MW - Ismailia
Job title : Senior Field Service Gas Turbine Engineer
Job Description : Performing major inspection (M.I) for gas turbine frame 9EA due to (compressor surge) or distortion of Compressor blade (rotor/stator) and inlet guide vane.
- Dates** : From Mar. 2022 till Apr. 2022
Employer : Field Core Company (GE) with East Delta Electricity Production Co.
Project : AL-SHABAB Combined Power Plant 1500MW - Ismailia
Job title : Senior Field Service Gas Turbine Engineer
Job Description : Performing combustion inspection (C.I) for 2 gas turbine frame 9EA.
- Dates** : From Jun. 2021 till Aug. 2021
Employer : East Delta Electricity Production Company / Ansaldo Energia
Project : AL-SHABAB CCGT 1500MW
Job title : Senior Field Service Gas Turbine Engineer
Job Description :
 - Perform maintenance for centrifugal gas compressor atlas copco scf6 6600 rpm.
 - Discussing and studying offers from companies to conduct long-term overhauls for gas turbine (12 turbines x 125MW) (G.E frame 9ea).
 - Discussing and studying offers from companies to transfer two gas turbine 2x125MW from Damietta Power Station to Arish Power Station.
- Dates** : From 2020 till Feb. 2022
Employer : ANSALDO THOMASSEN with East Delta Electricity Production Company
Project : AL-SHABAB CCGT 1500MW
Job title : Senior Field Service Gas Turbine Engineer
Job Description :
 - Responsible for outage (overhaul) for 7 Gas turbines (G.E) frame 9EA.
 - Responsible for overhaul for 7 generators (BRUSH and ELIN).
 - Using bore scope to visual check.
 - Using Non-Destructive Testing to detect cracks in material.
 - Work with team responsible for managing spare parts for 16 gas turbine until 2025 and developing a plan to overhaul 16 gas turbine (C.I - HGP - M.I).
- Dates** : From Apr. 2021 till May 2021
From Jan. 2020 till Feb. 2020

Employer : ANSALDO ENERGIA with East Delta Electricity Production Company
Project : AL-SHABAB CCPP 1500MW
Job title : Senior Field Service Steam Turbine Engineer
Job Description : Responsible for minor inspection for 2 Steam turbine (SH-TCDF 41) MT20 SERIES and generator (THR-L45).

Dates : From Nov. 2019 till Jan. 2020
Employer : GE with East Delta Electricity Production Company
Project : AL-SHABAB CCPP 1500MW
Job title : Senior Field Service Gas Turbine Engineer
Job Description :

- Responsible for outage (overhaul) for Gas turbines (G.E) frame 9EA.
- Responsible for overhaul for generators (BRUSH and ELIN).
- Using bore scope to visual check.
- Using Non-Destructive Testing to detect cracks in material.

Dates : From 2018 till 2019
Employer : ANSALDO ENERGIA, ENEIXO with East Delta Electricity Production Company
Project : AL-SHABAB CCPP 1500MW
Job title : Field Commissioning Engineer
Job Description : Responsible for commissioning of AL-SHABAB Power Project Phase II (Converting Existing Simple Cycle to Combined Cycle):

- 2 steam turbines (MT20) 500MW and their auxiliaries (ANSALDO ENERGIA).
- 2 generators model (THR-L45) (cooled by H2) and their auxiliaries (seal system, H2- CO2 system and ELEGA system).
- 2 AIR cooled condenser with dimension (106m x72m x36m) and 35 fan with their gear box and their auxiliaries (Evacuation System and cleaning system) (ENEIXO - GEA).

Dates : From 2018 till now
Employer : Egyptian Engineers Syndicate / Training Center of East Delta Electricity Production Company
Job title : Lecturer
Job Description : Giving training courses and lectures in:

- Work principles of gas turbines.
- Operation and maintenance of gas turbines.
- Operation and maintenance of Pumps.
- Valves.
- Bearing.

Dates : From 2016 till 2018
Employer : ANSALDO ENERGIA, ENEIXO with East Delta Electricity Production Company
Project : AL-SHABAB CCPP 1500MW
Job title : Construction Engineer

Job Description : Responsible for construction and commissioning of AL-SHABAB Power Project Phase II (Converting Existing Simple Cycle to Combined Cycle):

- Followed up with ENEXIO Germany GmbH company two air cooled condenser (ACC) and their auxiliaries.
- Followed up with ANSALDO ENERGIA company two steam turbines 500MW, Generator and their auxiliaries.
- Followed up with TECHINT company Installations and mechanical works.

Dates : From 2015 till 2016

Employer : GE with East Delta Electricity Production Company

Project : AL-SHABAB Gas Turbine Simple Cycle Power Plant 1000MW

Job title : Senior Field Service Gas Turbine Engineer

Job Description :

- Responsible for outage (Hot Gas Path (H.G.P)) Gas turbine (G.E) frame 9EA (10 UNITS OF Gas Turbine).
- Selected to discuss offers submitted by GE (32K CI Extender and Advance Gas Path (AGP)) to extend mean time between maintenance for the Combustion Hardware (CI) and Advanced Gas Path (AGP) to 32,000 FFH instead of 24,000 FFH applies to Gas Turbines GE Frame 9EA units firing at up to 2055°F firing temperature.

Dates : From 2015 till 2016

Employer : Alstom (ABB/BBC) Company with East Delta Electricity Production Co.

Project : AL-SHABAB Gas Turbine Simple Cycle Power Plant 1000MW

Job title : Field Service Gas Turbine Engineer

Job Description : Participation in outage (overhaul) for ABB/BBC Gas turbine type 9D (Alstom/ABB, Model 9D).

Dates : From 2014 till 2015

Employer : KHARAFI National with East Delta Electricity Production Company

Project : AL-SHABAB Gas Turbine Simple Cycle Power Plant 1000MW

Job title : Commissioning & Construction Engineer

Job Description :

- Perform inspection on Combustion Hardware (CI) of 8 gas turbines due to liner failure.
- Commissioning of liquid system for 4 gas turbine with KHARAFI National.
- Making modification on liquid fuel system in gas turbine that lead to saving a lot of money and maintain the continuity of gas turbines units.
- Maintenance and Commissioning of oil purification system (ALFA LAVAL OIL SEPERATOR) which provides pure liquid fuel to 8 gas turbines at AL-SHABAB Power Station (FOCUS 50-300) (3 x 50 m3/hr.).

Dates : From 2014 till 2015

Employer : East Delta Electricity Production Company

Project : AL-SHABAB Gas Turbine Simple Cycle Power Plant 1000MW

Job title : Field Service Gas Turbine Engineer

Job Description : Perform periodic inspection every 2000 hour (3 month) for ABB/BBC Gas turbine type 9D (Alstom/ABB, Model 9D).

Dates : From 2013 till 2014

Employer : East Delta Electricity Production Company / GE and Kharafi National

Project : AL-SHABAB Gas Turbine Simple Cycle Power Plant 1000MW

Job title : Field Service Gas Turbine Engineer

Job Description :

- Converting the combustion chamber from standard to dry low NOX (DLN) for 8 gas turbines frame 9ea.
- Perform inspection on Combustion Hardware (CI) of 8 gas turbines frame 9ea.

Dates : From 2012 till 2013

Employer : East Delta Electricity Production Company / KHARAFI National and Emit ERCOLE MARELLI Spa

Project : AL-SHABAB Gas Turbine Simple Cycle Power Plant 1000MW

Job title : Commissioning & Maintenance Engineer for water desalination plants (reverse osmosis - RO)

Job Description : Installation and operation of water desalination plants (reverse osmosis - RO) (treatment underground water) (3x157 m³/h) which provide demineralized water (Demi) and RO water to 8 gas turbines.

Dates : From 2010 till 2012

Employer : Arab Contractors Co.

Projects :

- EL-HOSANIA and WEST QANTARA water treatment plant
- ATAKA lifting water plant

Job title : Deputy Project Director for water treatment plant

Job Description : Operate and maintenance water treatment plant.

Dates : From 2009 till 2010

Employer : Royal Jazz Company for the manufacture of cookers

Job title : Planning, Follow-up, Quality & Maintenance Engineer

Job Description :

- Set up plan of production.
- Set a timetable for each stage of production.
- Determine the appropriate sheet sizes for each part of the cooker.
- Maintenance and operate Hydraulic and mechanical presses which responsible for the formation of tin.
- Maintenance of dies (ESTAMBA).