

**102472-ELE-4MOx-E-2012**  
**Section Head Gas Turbine Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 9 years experience working in gas turbine operation, maintenance and troubleshooting.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 01/09/1990  
Gender : Male  
Marital Status : Married  
Residence : Kafr El-Sheikh

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Kafr El-Sheikh University, 2012

## LANGUAGES

Arabic : Native Language  
English : Excellent  
French : Basics

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: RSLogix 5000  
: TT4000  
: GMS (Global Maintenance Solution) as CMMS  
: MATLAB (M file and Simulink)  
: Autodesk AutoCAD 2D

## TRAINING COURSES AND CERTIFICATIONS

: RSLogix5000 Fundamentals Course (ELSEWEDY Automation).  
: Step7- 400 Course (REC Center).  
: UPS Systems & Batteries Maintenance (OGS).  
: Allen Bradley Panel View plus (ELSEWEDY Automation).  
: Cables selection and testing (Cooperation Training Center).  
: Improvement of Energy Efficiency at Electrical Equipment (OGS).  
: Earthling of Power Systems (Cooperation Training Center).

- : Training at REDA Pump Company - ESP.
- : Training in Schlumberger Petroleum Service Company.
- : Training in Halliburton Petroleum Service Company.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2019 till now
- Employer** : Khalda Petroleum Co. (Apache JV)
- Project** : Karama Fields Power Plant:
- 8x4.6MW Gas Turbine (Solar Centaur 50- Gen. Set) Dual Fuel.
  - 3x5.6MW Gas Turbine (Solar Taurus 50- Gen. Set) Dual Fuel.
- Job title** : Section Head Gas Turbine Engineer
- Job Description** : Gas Turbine Engineer (Operation, Maintenance and troubleshooting) at KPC - Karama Power Station which consists of:
- 8 Centaur 50 and 3 Taurus 60 gas turbines (SOLAR TURBINES).
  - ABB switchgear Unigear ZS1 (MV & LV panels) and its protection relays.
  - 11 Power transformers.
  - 2 CUMMINS and 1 CAT diesel generators (E.D.Gs).
  - 2 IR electrical driven compressors and 1 IR diesel driven compressor.
  - Gas Fuel skid.
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- Dates** : From Nov. 2020 till Jan. 2021
- Employer** : Petrobel Petroleum Co. (ENI JV)
- Project** : Abu-Madi and El-Gamil Sites with Petromaint Co.
- Job title** : E&I Gas Turbine Engineer
- Job Description** : Worked as E&I Maintenance Gas Turbines Engineer at El Qara station, LPG station and Upgrading station and their gas coolers.
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- Dates** : From Mar. 2014 till May 2019
- Employer** : Qarun Petroleum Co. (Apache JV)
- Project** : East Baharia Fields Power Plant  
(6x4.6MW Gas Turbine (Solar Centaur 50) Dual Fuel)
- Job title** : Gas Turbine Engineer
- Job Description** : Gas Turbine Engineer (Operation, Maintenance and troubleshooting) at QPC - East Baharia Power Station which consists of:
- 6 Centaur 50 gas turbines (SOLAR TURBINES).
  - Schneider switchgear MCset 3.3KV (MV & LV panels) and its protection relays (Sepam Series 40 & 80).
  - 6 Power Transformers.
  - 2 CUMMINS diesel generators (E.D.Gs).
  - 2 IR electrical driven compressors.
  - Gas Fuel skid.
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- Field of experience** : • Main Duties:
- Carrying out starting and shutdown sequences.
  - Executing Daily routine checks on field equipment.
  - Ensuring safety conditions before maintenance.

- Executing scheduled preventive maintenance of gas turbines (1K, 4K and 8K services).
- Carrying out corrective maintenance issues.
- Carrying out major engine overhauling.
- Performing Engine Borescope Inspection.
- Troubleshooting of control system and control devices (faults and upsets).
- Responsible for:
  - Allen Bradley Turbines Control System.
  - ABB UniGear ZS1 switchgear (3.3KV) and its protection relays.
  - Schneider MCset switchgear (3.3KV & 11KV) and its protection relays.
  - Firefighting systems including (CO2, Deluge and FM200).
  - Two Cummins Emergency Diesel Generators.
  - 22KV/3.3KV and 3.3KV/400V power transformers.
  - Instrument and utility air system (Air Compressors and Air Dryers).
  - Gas Fuel Conditioning Skid.
- Technical Skills and Achievements:
  - Reviewing and applying protection coordination studies for power systems and familiar with protection relays REM 610, REM 543, REF 542 plus, Sepam 40 and 80.
  - Reprogramming Allen-Bradley PLCs and troubleshooting its components (remote and local input & output modules, communication modules, HMI).
  - Operation, maintenance and troubleshooting of Schneider and ABB switchgears (UniGear ZS1) (Medium voltage and low voltage panels).
  - Performing thermal analysis (IR) using FLIR program.
  - Ability to read and understand PIDs, mechanical drawing and electrical drawings.
  - Ability to understand different machinery curves, data sheets and calculate required power and efficiency.
  - Performing electrical isolation required for maintenance activities.
  - Using calibration devices like hart communicator, fluke, druck, ...etc.
  - Using electrical devices like multimeters, megger test devices and earth tester devices.
  - Implementing the HSE standard, safety procedures and familiar with permit to work systems.
  - Preparing risk assessment for different jobs.
  - Work with CMMS programs and report different types of KPIs.
  - Follow up and handle maintenance activities and spare parts using GMS program.
  - Carried out 9 engine exchange for different Centaur 50 turbines without outsource Rep.
  - Carried out 3 engine exchange for different Taurus 60 turbines without outsource Rep.
  - Successfully implemented Load Shedding System at Karama power station which lead to save about 9000 \$.
  - Attended complete maintenance for MV ABB switchgear (Unigear ZS1) under supervision of ABB crew.
  - Attended complete maintenance for MV Schneider switchgear (MCset) under supervision of Schneider crew.