

Holds a B. Sc. in Mechanical Power Engineering and has over 21 years hands-on experience in power generation plants and oil & gas fields as Turbine Maintenance Engineer and turbine auxiliaries as Rotating Maintenance Engineer (troubleshooting and overhauling).

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 24/08/1977  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## **EDUCATION**

: B. Sc. in Mechanical Power Engineering, Helwan University, 1999

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel), Internet  
: AutoCAD  
: MS Project

## **TRAINING COURSES AND CERTIFICATIONS**

: Certified from Vibration Institute in USA as Vibration Analyst CATII (May 2019).  
: Attendance of 1st Conference in Egypt for maintenance and reliability IMRCE (2019).  
: Basic machinery vibration CAT II certified from Vibration Institute.  
: Operation analysis and root cause analysis.  
: Shoubra El-Kheima Power Plant Basics and Site Specifics Courses (Bechtel Company) (from Feb. till Jun. 2001).  
: Vibration Analyses and condition monitoring (one week).  
: Balancing for Rotary Machines (one week).  
: Alignment for Rotary Machine (one week).  
: Pump Maintenance (one week).  
: Valves operation maintenance.

- : Safety (two weeks).
- : AutoCAD (3 weeks).
- : Computer Introduction and Dos (2 weeks).
- : Windows (2 weeks).
- : WinWord (3 weeks).
- : Excel (3 weeks).
- : Primavera level 1.
- : Management courses: Effective communications.
- : Management courses: Letters writing skills.
- : Management courses: Effective leadership and delegation skills.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Mar. 2020 till now  
**Employer** : Cairo Electricity Production Co.  
**Job title** : Energy Manager  
**Job Description** : Responsible for planning and implementing the energy conservation plans for 6 big power stations.

**Dates** : From Jan. 2009 till Mar. 2020  
 From Feb. 2001 till Dec. 2007  
**Project** : Shoubra El-Kheima Power Station (4x315MW)  
**Job Description** :
 

- From Jul. 2014 till Mar. 2020:
  - Turbine Department Manager, responsible for turbine department in plant leading 6 engineers and 70 technicians managing all activity of the department such as spare parts, planning maintenance, all overhauls of all equipment, troubleshooting and failure analysis.
- From Jan. 2009 till Jun. 2014:
  - Working as Turbine Maintenance Senior Engineer, responsible for 3 engineers and 20 technician for maintenance rotating and static equipment overhauls for equipment such as steam turbine, spare parts preparations, tenders and training new technicians and engineers in training center in the plant, make 3 major overalls for Westinghouse steam turbine 315MW as Leader Engineer.
- From Feb. 2001 till Dec. 2007:
  - Working as Turbine Maintenance Junior Engineer, my group are 16 technicians, make 4 major overalls for Westinghouse steam turbine 315MW included generator overall disassemble generator rotor removing, re-assemble as Assistance Engineer and 1 major overhaul as Shift Engineer, make many major overhauls for different equipment such as boiler feed pumps – condensate pumps compressors unlike trouble shooting for different rotating and static equipment.

**Dates** : From Dec. 2007 till Dec. 2008  
**Employer** : Suez Oil Company  
**Job title** : Rotating Engineer

**Job Description** : Responsible for 10 Technicians for gas Compressors (Reciprocating 4hh type Ingersoll-Rand Company), R/O desalination unit, Flushing desalination unit, Dehydration unit (glycol unit).

- Further experiences** :
- Traveling to USA to inspect feed pump turbine spare parts to Shoubra El-Kheima Power Station from Siemens damage delevel turbo machinery factory (May/Jun. 2005).
  - Traveling to UK to inspect condensate pump spare parts to Shoubra El-Kheima Power Station from Pinnacle Company Reverse Engineer (Jul. 2012).
  - Share in overhaul in Rabigh Power Plant in Saudi Arabia (from Dec. 2009 to Feb. 2010) in Westinghouse turbine valve and generator and it is accessories.
  - Jun. 2016: Travelling to UK to inspect condensate pump at Pinnacle Co.
  - 2017: Work at Beni Suef Siemens Power Station as Construction Engineer at steam turbine No 10 installing (NCS Co.).
  - From Jan. till Apr. 2018: Work in Doosan Company DPSar in OMT department perform generator overhaul at ROMCO Rabigh Power Plant unit 1 generator overhauling.
  - Consultant Engineer for zweel university solar unit for power generation.
  - Instructor in Shoubra El-Kheima Power Station Training Center, O.G.S Company and Mechanical Engineering Society in the following courses:
    - Pumps maintenance.
    - Alignment for rotary machines.
    - Steam turbine maintenance overall.
    - Compressors maintenance.
    - Measuring tools.
    - Heat exchangers.
    - Bearing identification.
    - Condition monitoring.
    - Rotating equipment operation and maintenance.
    - Mechanical maintenance diploma for mechanical engineers in rotating equipment maintenance 25 days.
    - Maintenance & trouble hooting for mechanical equipment.
    - Screw compressors maintenance and operation.
  - Preparation material of many mechanical courses.

**Supervising the following:**

- Supervision 6 major overhaul of steam turbine 350MW included generator overall disassemble generator rotor removing, reassemble check clearances.
- Supervision 4 major overhaul of gas turbine GE frame 5 in Babetco Oil Company (Matrouh, Egypt) with my stuff, many times.
- Supervision construction of many equipment's such as pumps, compressors, HP heaters and heat exchanger.
- Supervision major overhaul of gas turbine Sulzer in Balaeem Oil Company (Abo Redes, Egypt) with Petroment Company stuff.
- Supervision of hot gas path of gas turbine GE frame 5 in Suez Oil Company (Badran, Egypt) with my stuff.
- Alignment for:
  - Main Steam Turbine (315MW Shoubra El-Kheima Power Plant).

- Boiler Feed Pump (7 Stages Shoubra El-Kheima Power Plant).
- Many types of pumps compressors and other equipments.

**Work Skills:**

- Be able to install new equipments as drawing.
- Be able to make alignments for many different equipments.
- Worked for one year at Oil and Gas Company and many overhauling for gas turbine at oil and gas field.
- Be able to make permits and Commitment to safety rules.
- Be able to make review for previous overhauling history job packs, drawings, specifications, inspection plans and repair plans prior to inspection of equipment.
- Be able to submit detailed inspection and repair reports.
- Be able to making decisions on repairs as per code requirements.
- Be able to Work with OEMs to carryout overhauling jobs.
- Be able to carry out inspections at repair shop or witness dynamic balancing at vendor's shop and communicate the repair requirements and job progress.
- Be able to Monitor the overall job, ensure the quality of job and record findings.
- Be able to report preparation and other follow up jobs post turnaround.
- Be able to lead group work from engineers and technicians.

**Summary:**

- Over 21 years hands-on experience in power generation plants and oil & gas fields as Turbine Maintenance Engineer and turbine auxiliaries as Rotating Maintenance Engineer (troubleshooting and overhauling) in following types of equipment:
  - Steam Turbines. Westinghouse 315MW, Mitsubishi 315MW, steam turbine generators DEC turbine and generators.
  - Gas turbine GE frame five, sulzer turbine and Ruston turbine.
  - Boiler Feed Water Pumps Siemens Transamerica delevel.
  - Different types of gearbox, Big Motor Bearing Inspection Siemens motors.
  - Ingersoll-Rand motors, Alstom motors for condensate pumps.
  - Circulate pumps, service pumps, closed cooling pumps, condensers.
  - Heaters, coolers, different types of heat exchangers.
  - Different types of pumps (screw, gear, Centrifugal, volute, submersible).
  - Compressors (reciprocating, centrifugal, rotary) Ingersoll-Rand, dresser-rand compressors.
  - Water treatments equipment and RO units.
- Doing balance for turbines and fans in site, vibration measurements, vibration analysis and executing condition monitoring programs.
- Supervising water and sewage grid at the plant.
- Supervising chillers and air condition system at the plant.