

<b>101475-MEC-M-E-1993</b> <b>Mechanical Maintenance Engineer</b>
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Holds a B. Sc. in Mechanical Power Engineering, a Diploma in "Thermal Installation", also M. Sc. degree and preparing for PhD. Has about 18 years hands-on experience in turbine maintenance of Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 29/12/1968  
Gender : Male  
Marital Status : Married  
Residence : Ismailia

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Zagazig University, 1993  
: Diploma in "Thermal Installation", Suez Canal University, 1998  
: M. Sc. in "Comparative study of the performance of hybrid solar assisted thermal power plants", Suez Canal University, 2006  
: Preparing for "PH.D" degree in "Enhancement of the off-Design Performance of Gas Turbines", Suez Canal University  
: High School: El Sadat School

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet  
: Programming languages: FORTRAN, TURBO C, VISUAL BASIC  
: Engineering Equation Solver (EES)  
: Computational Fluid Dynamics program (Fluent Ver. 6.3)  
: Scheduler programs: Microsoft Project, Primavera  
: Drawing programs: AutoCAD, 3D Max, Solid Works  
: CMMS "Amplisma" maintenance management program

## TRAINING COURSES AND CERTIFICATIONS

: Toefl language course with a score of (540) from Amideast, 2009.  
: Course in Pumps by KHARAFI NATIONAL.

- : Course in Alva laval system (operation/maintenance) by KHARAFI NATIONAL.
- : Course in "Automatic Hydraulic Control Systems & Applications" at Mechanical Engineering Syndicate.
- : Course in "Gas turbine Maintenance" at North Cairo Training Center (Nov. 1999).
- : Course in work order using EMPAC program at Abu Qir Power Plant (Dec. 2004).
- : DCS course held by Nova Cimi Montubi Co. (Apr. 1996).
- : Operation & Maintenance of thermal cycle course held by Nova Cimi Montubi Co. (May 1996).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2011 till now
- Project** : EL-SHABAB Power Plant 8x125  
(Frame 9E MW Simple Cycle Gas Turbine Project)
- Job title** : Gas Turbine Maintenance Engineer
- Job Description** : Scope of work:
- Pneumatic and hydraulic test of piping.
  - Piping flushing and air blowing.
  - Scheduling the system procedure.
  - All erection works including piping erection and main turbine parts erection.
  - Alignments between turbine and generator and between accessory gear box and compressor.
  - Maintenance of the (9E gas turbine) auxiliary systems, (Closed cooling system, Lube oil system, Hydraulic oil system, Air processing unit, Gas/Fuel system, etc.).
  - Build 3D computer models of the equipments to simulate it's work and analysis it's troubleshooting using 3D Max.
  - Prepare descriptive drawings for the spare parts needed to be manufactured in the workshop using AutoCAD.
  - Training of newly employed engineers in the plant.

- Dates** : From Oct. 1995 till May 2011
- Project** : Abu Sultan Power Plant (4x150MW)
- Job title** : Mechanical Maintenance Engineer at Turbine Department
- Job Description** : Scope of work:
- Maintenance of various types of pumps, compressors, Heat exchangers, hydraulic systems, diesel engines.
  - Prepare scope of work for all mechanical maintenance works.
  - Prepare maintenance schedule of units using Microsoft Project, Primavera.
  - Determination of spare parts requirements for the equipments and ensuring availability of economical stock level.
  - Implementation and management of work groups.
  - Plan and execute routine maintenance activities and evaluating equipment condition.
  - Identify potential areas of improvements and make reports.

- Develop and analysis of equipment maintenance data records to ensure availability of equipments, investigate and prevent reoccurring problems.
- Turbine overhaul (150MW), scope of work includes the following:
  - Disassembly & assembly of Main stop valve – Turbine control vales – Intercept & Reheat valves.
  - Disassembly & assembly of turbine casings.
  - Disassembly & assembly of bearings and measure shaft position.
  - Replacements of seals and gland packings.
  - Adjustment of diaphragms and turbine rotor clearances.
  - Check and align couplings.

**Dates** : From Sep. 1994 till Oct. 1995  
**Employer** : Canal Harbor Company  
**Job title** : Mechanical Maintenance Engineer of Heavy Equipments  
**Job Description** : Scope of work:
 

- Maintenance of hydraulic circuits and diesel engines.
- Maintenance of transmaton, final drives and brakes of earth moving equipments.
- Maintenance of under carriage of earth moving equipments.

**Search Papers:**

- Participated with a search paper in the "ASME, American Society of Mechanical Engineering", Ninth International Congress of Fluid Dynamics and Propulsion (ICFDP 9), which was held during the period from 18-21 Dec. 2008 at Alexandria - Egypt, with a search paper in the subject of "Compressor Intercooling using Water Injection".
- A search paper in the Tenth International Congress of Fluid Dynamics (ICFD 10), which was held at Stela Di Mare, Ain Soukhna, Red Sea, Egypt, during the period from 16-19 Dec. 2010, the paper title "A Proposed Program to Predict the Performance of Steam Power Plants".