

101597-MEC-14DEHMOS-E-2000
Senior Mechanical Engineer

Holds a B. Sc. in Mechanical Engineering and has about 21 years hands-on experience working mainly in maintenance and operation, but also in commissioning, technical office, design and HVAC.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/05/1978
Gender : Male
Marital Status : Married
Residence : Damanhour

EDUCATION

: B. Sc. in Mechanical Engineering, Alexandria University, 2000

LANGUAGES

Arabic : Native Language
English : Good
German : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD 14 & 2000 (and other advanced versions)
: Carrier HAP 4.02 Load Calculation Program
: Carrier Blockload Load Calculation Program
: Elite Design programs
: Carrier E20-II Duct and piping Design Program
: Visual Basic 6
: C++ programming

TRAINING COURSES AND CERTIFICATIONS

: Vibration Analysis ISO Category II Certified, Mobius Institute (2020).
: Advanced Data Analysis and Machine Learning, Udacity (2020).
: Received a course in Cadduct Software (<http://www.cadduct.com>) and AutoCAD based aiding design software.
: "CAMS" Competency Assurance Management System, certified by BG-Group.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2016 till now
Employer : ETHYDCO (Ethylene Derivatives Co.)
Job title : Senior Mechanical Engineer
Job Description :

- Operating, Planning and supervising Periodic and Preventive maintenance and repairing works for gas turbines (Siemens SGT-800).
- Operating and maintenance for Ingersoll Rand Screw compressors R90.
- Operating, Planning and supervising Periodic and Preventive maintenance and repairing works for Utilities pumps (Ruhrpumpen).

Dates : From Sep. 2010 till 2016
Employer : PETROMAINT
Project : Egyptian LNG Plant, Idku
(12 gas turbines Frame 5002 D+ driving 20 centrifugal compressors Nuovo Pignone MCL and BCL types)
Job title : Senior Mechanical Turbo-Machinery Engineer
Job Description :

- Operating, Planning and supervising Periodic and Preventive maintenance and repairing works for gas turbines (GE frame 5002 gas turbine and Siemens SGT-500).
- Planning and supervision of 4 module replacement S/Ds (Complete replacement of gas turbine HP and LP modules) including auxiliaries overall (lube oil pumps, hydraulic pumps, couplings, and lube oil tanks).
- Carried out field supervision for gas turbine axial compressor inspection (eddy current inspection for AXCO blades).
- Implement the PTW (permit to work system) requirements, issuing the permit, prepare the Risk Assessments.
- Planned, supervised dry gas seal replacement for centrifugal compressors.

Dates : From Apr. 2004 till Aug. 2010
Project : Damanhour Combined Cycle Power Station (158MW):
4 gas turbines x 25MW + 1 steam turbine 58MW
Job title : Combined Cycle Maintenance & Operation Engineer
Job Description :

- DCS control system supervision of:
 - 4 HRSG (Manufacturer: NEM) Single pressure heat recovery, 4 heat exchangers, feed water tank, high pressure drum, steam lines, high- and low-pressure circulation pumps and feed water pumps.
- Releasing PTW and supervision of electrical and mechanical isolation processes.
- Planning and supervise periodic and preventive maintenance and repairing works for both gas turbines and steam turbines in site.
- Minor, hot gas path and major inspections for GE frame 5001 gas turbine.
- Major Overhaul for Steam Turbine GE 58MW:
 - Supervising Disassembly, inspection and reassembly of medium pressure steam turbine (shells, rotor, diaphragms).
 - Taking clearances and measurements (diaphragms, crush pins, centering pins, oil deflectors, bearings, centerline key, thrust

bearing shims).

- Performing tests (bump test for thrust bearings, rub test for diaphragms packing, stack check for thrust bearing and drop check for horizontal joints of shells).
- Performing diaphragms alignment using tight-wire method.
- Performing rotor alignment using 16 points method.

Dates : From 2001 till 2004

Employer : PROSERVICE (HVAC Design and Project Services Company)

Projects :

- Al-Bustan Palace Intercontinental Hotel, Muscat – Oman: Design and renovation of the mechanical systems (HVAC - Ventilation and Firefighting) for the royal palace.
- Barjeel Residential Tower - Al Sadd Stadium, Doha – Qatar: Design the HVAC system.
- Asmakh Tower (Movenpic Hotel) - Beverly Hills Towers - El Wagba Palace - Doha Sports City, Doha – Qatar: Mechanical systems commissioning.
- BIBLIOTHECA ALEXANDRIA – Egypt: Mechanical systems commissioning. Site supervising – AutoCAD workshop and as built drawings.

Job title : Mechanical Design & Commissioning Engineer

Field of experience :

- Mechanical Turbo-Machinery Engineer with a long experience (since 2001) in gas turbines, steam turbines and centrifugal compressors.
- Certified vibration analyst ISO CAT II, experienced in vibration analysis, shaft alignment and rotor balancing.
- Working since 2010 in oil and gas industry and previously in power stations field.
- Well-equipped with solid theoretical background and long practical field experience.
- Previously worked in GCC (Qatar and Oman), able to seamlessly work in a multi-ethnic task force with self-motivation and high communication skills.
- Knowledgeable and committed to HSE standard strictly applied by multinational companies and a conversant with major applicable industry codes.
- Highlighted Jobs:
 - Collaborated in designing, manufacturing and operating Rotor Balancing machine local workshop machine in Damanhour Power Station, Egypt.
 - Carried out shaft alignment and rotor balancing for 30MW in Matrouh Power Station, Egypt.
 - Rotor balancing and shaft alignment for 1MW forced draft fan in Sidi Krir Power Station, Egypt.
 - Dry gas seal replacement for centrifugal process gas compressor in ELNG IDKU, Egypt.
 - Major overhauling of gas turbines GE Frame 5.
 - Vibration analysis and troubleshooting for Damanhour Power Station Steam turbine.
 - HVAC system design resident towers in Doha, Qatar.
 - HVAC system commissioning in Qatar, Oman.

- Skills:
 - Gas turbine.
 - Vibration Analysis.
 - API pumps.
 - Compressors.
 - Steam turbines.
 - Heat exchangers.