

105881-MEC-45DQY-E-2006
Head of Condition Monitoring Section

Holds a B. Sc. in Mechanical Production Engineering and has over 12 years experience in Reliability solutions, condition monitoring, Lubrication program and Rotor dynamics for rotating equipment.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 10/07/1983
Gender : Male
Residence : Alexandria

EDUCATION

: B. Sc. in Mechanical Production Engineering, Alexandria University
: Working on M. Sc. in Rotating Equipment, Zaragoza University, Spain

LANGUAGES

Arabic : Native Language
English : Fluent
German : Fair

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Training at Alstom (Switzerland) Ltd. - Gas turbine customer service dept. (CSBE) in Baden Switzerland (from Jun. till Aug. 2005).
: Training at ABB Lernenzentren LFW Baden, Switzerland (Jun./Jul. 2003).
: Training at Alstom (Switzerland) Ltd. - Gas turbine design dept. (CSBE) Customer Service in Baden (Jul./Aug. 2003).
: Training at Egyptian Petrochemical Co. (Jun./Jul. 2002).
: Vibration analysis CAT IV Mobius Inst, Antwerp Belgium.
: Rotor dynamics and machine balance vibration inst.
: Certified Vibration analysis Category III MOBIUS ins., Australia.
: Summit series Road map reliability by Mobius Inst.
: CSI 6500 Online Prediction Operation & Maintenance course 2080.
: CSI 6500 Online Protection Operation & Maintenance course 2088.
: Balancing Theory & Applications.

- : CSI 6300 Digital Over speed Protection system operation and maintenance course 2087.
- : Intro to AMS Machinery Health Management.
- : Intermediate AMS Suit: Machinery Health Manager 2074.
- : Fundamental of the CSI 2130 Analyzer course 2070.
- : Fundamental of the CSI 2140 course 2076.
- : Fundamental of Vibration course 2069.
- : Basic Vibration Analyst Course 2031.
- : Intermediate Vibration Analyst cat II Emerson 2032.
- : AMS Device Manager course 7020.
- : DeltaV implementation course 7009.
- : MHM System Design course 0022.
- : MHM System Networking and Netstarts course 0024.
- : Advanced vibration Analysis Emerson course 2033.
- : Bearing Identification.
- : Gas Compressor Technology.
- : Pump Technology Refinery Technology.
- : Report writing techniques.
- : Mechanical seal.
- : NDT ULTRASONIS TEST LEVEL II.
- : NDT MAGNETIC PARTICLES TEST LEVEL II.
- : NDT LIQUID PENETRATION TEST LEVEL II.
- : NDT RADIOGRAPH TEST LEVEL II.
- : Lubrication system.
- : API 610.
- : Seals types and design John crane training.
- : Heat exchanger design and maintenance.
- : VALVES.
- : Advanced Microsoft Access.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Nov. 2015 till now
- Employer** : AMOC Refinery – Eprom
- Job title** : Head of Condition Monitoring Section
- Job Description** :
- Manage the CM projects in Amoc Refinery.
 - Lead CM team in the project (5 engineers + 6 technicians).
 - Budget control for condition monitoring Department.
 - Lead the development, implementation and management of Reliability Centered Maintenance (RCM) and other reliability techniques processes and standards.
 - RCA expert for condition monitoring cases.
 - Review and monitoring of rotating equipment condition including vibration data, lube oil, thermography results and critical operating process.

- Attend daily meetings & communicates with Operation, Planning, HSE and other departments for coordination of agreed maintenance request.
- Approve & implement solutions to maintenance process & activities ensuring risk of failures are fully detected.
- Analyze reliability diagnostic report & recommend changes to site-wide maintenance strategies/programs to drive continuous improvement.
- Ensuring the sustainability of reliability process, such as Bad Actors, Root Cause Failure Analysis, defect elimination, etc.
- Act as maintenance interface with engineering services to provide input on new capital projects.
- Review, comment and approved maintenance processes, procedures, services, inspection frequencies / applicability of equipment.
- Provide guidance & support to maintenance team on identifying critical issues, bad actors of rotating equipment & minimize work backlogs.
- Evaluate job performance for PdM team and assist Department Manager and set key performance indicators for the department.
- Review and approved improvement strategies for maintenance, operations, engineering and purchasing to extend lifecycle and equipment usage, support cost reduction efforts.
- Effective Training Program for the development of junior engineers.

Dates : From May 2015 till now (part time)
Job title : Instructor Assessor
Job Description :

- Oil and Gas Training Company.
- Egyptian Petrochemical Company.
- Eprom Training Center.
- BADR ELDIN COMPANY.
- Midor Training Center.

Dates : From 2011 till 2015
Employer : Emerson Process Management MEA
Job title : Senior Service Engineer
Job Description :

- Design, Install and Lead of Reliability and condition monitoring programs for different industrial applications in MEA.
- Develop reliability and best practice techniques for different plants in MEA.
- Conduct customer technical presentations and Training.
- Installation and Commissioning for Emerson online system CSI 6500.
- Lead Long Term condition monitoring service projects MAADEN / ARAMCO / SADARA / YANSAB.
- Work with QA team to develop standard work procedures documents.
- Involved in start-up and commissioning for Maaden phosphate project, KSA (MPC).
- Commissioning and installation for online system CSI6500 in KNPC and KOC Kuwait Project / SWCC Shoiba, KSA / Aramco Qatif, KSA / Rabigh Power Plant.
- Work with Sales team to get more P.O.s during my Service jobs.
- Execute machinery vibration diagnostics and other condition monitoring analysis (oil, Thermal Imaging, Fault detection using ultrasonic waves).
- Work in customers site (offshore and onshore to resolve customer

technical issues (KSA, OMAN, UAE, KUWAIT, QATAR, BAHRAIN, EGYPT).

- Training Instructor for vibration analysis and related Emerson products.
- Lead Engineer for SADARA project (Emerson - Sadara).
- Installation and commissioning for vibration Wireless transmitters.
- Assigned as a Lead Engineer for CSI 6500 online vibration monitoring system (VMS) & Wireless vibration system (Wireless HART Technology) projects which includes:
 - Vibration monitoring system configuration.
 - Factory Acceptance Test (FAT).
 - Site Acceptance Test (SAT).
 - Installation.
 - Site commissioning.
- Support services for CSI products with site training to customers for the following products:
 - 2130 & 2140 analyzer.
 - 5200 Mini oil Lab.
 - 8225 Laser alignment system.
 - 9830 Infrared Thermograph.
 - 9420 Wireless vibration transmitter.
 - 6500 Online Vibration Monitoring System.
 - Machinery Health Manger Software.

Dates	:	From Mar. 2006 till Apr. 2011
Employer	:	Middle East Oil Refinery MIDOR Refinery
Job title	:	Condition Monitoring & Vibration Analysis Senior Engineer
Job Description	:	<ul style="list-style-type: none">• Collect data and analyze vibration signature using all analysis techniques such as Cross Phase analysis, Run up and Cost down tests, bump test, Peakvue ...etc. to detect and diagnose any problem before it leads to failure in several units in Midor refinery.• Using CSI analyzers 2120 and 2130 Pro Consultant and its software "AMS".• Using Bentley Nevada online system to detect and diagnose any problem before it leads to failure of critical equipment.• Writing monthly technical reports about the machinery health with clear explanations and professional recommendations and supervise applying these recommendations.• Built up a data base for the equipment's and select the equipments which go into the route.• Built up proper case studies.• Supervising maintenance activities and follow up.• Measuring and diagnosing faults of Bearings, Gearboxes, Electric Motors, Air Blowers, Fans, Gas Compressors, turbines, centrifugal pumps, and piston pumps.• Involved in troubleshooting, condition monitoring, vibration analysis and investigation and analysis of machinery failures, Involved in major overhauls of compressors and Turbines.• Oil analysis for rotating equipment.• Activities during shut down:<ul style="list-style-type: none">- Involved in shutdown activities for static equipment inspection and

- NDT inspection.
- Working night shift to follow up radiographic testing for pipes.
- Welding.
- Hydro testing.
- Safety valve testing.
- Overhauls:
 - Nouva Pignione compressor overhaul.
 - Hitachi centrifugal compressor overhaul.
 - SHIN NIPPON steam turbine overhaul.
 - IDP multi stage pump overhaul.
 - Elliott air compressor overhaul.
 - Atlas Copco centrifugal compressor overhaul.
 - Sundyne pumps overhaul.
 - Mitsubishi Centrifugal compressor overhaul.

Projects:

Job Description	Project	Location
CBM Consultant	Maaden Phosphate Company (MPC)	Saudi Arabia, 2011
Vibration analysis job/balancing	Maaden Phosphate Company	Saudi Arabia, 2011
CSI2130 Hands on training	Maaden Phosphate Company	Saudi Arabia, 2011
Manage Long term contract reliability	Maaden Phosphate Company	Saudi Arabia, 2011
CSI5200 commissioning and hands on training	Maaden Phosphate Company	Saudi Arabia, 2011
Basic vibration analysis course	MAADEN - Jalamid Plant	Saudi Arabia, 2011
MHM software hands on training	MAADEN - Jalamid Plant	Saudi Arabia, 2011
CSI2130 Hands on training	Maaden - Jalamid Plant	Saudi Arabia, 2011
Pumps technology training.	Maaden Phosphate Company	Saudi Arabia, 2011
Basic vibration analysis course	EQUATE - Kuwait	Kuwait, 2012
Commissioning for vibration wireless system	EQUATE - Kuwait	Kuwait, 2012
CSI 2130 Hands on training/balancing / alignment	EQUATE - Kuwait	Kuwait, 2012
Basic vibration analysis course	KOC West-Kuwait	Kuwait, 2012
Balance job	KOC West-Kuwait	Kuwait, 2012
MHM software hands on training	KOC West-Kuwait	Kuwait, 2012
Oil analyzer CSI5200 commissioning and hands on training	KOC Admin Building	Kuwait, 2012
Basic vibration analysis presentation	GASAL Airliquede Company	QATAR, 2012
ODS job	GASAL Airliquede Company	QATAR, 2012
CSI2130 Hands on training	GASAL Airliquede Company	QATAR, 2012
Online system CSI6500	SWCC Shoiba	Saudi Arabia, 2012

commissioning (turbine no.05)		
Online system CSI6500 Hands on training	SWCC Shoiba	Saudi Arabia, 2012
Basic vibration analysis course	TORISHIMA PUMPS	UAE, 2012
Pump balancing job	TORISHIMA PUMPS	UAE, 2012
CSI 2130 Hands on training	TORISHIMA PUMPS	UAE, 2012
CSI 2600 Commissioning and Hands on training	TORISHIMA PUMPS	UAE, 2012
Basic vibration analysis presentation	RAS QUIRTAS POWER PLANT	QATAR, 2012
MHM hands on training	RAS QUIRTAS POWER PLANT	QATAR, 2012
CSI 2130 Hands on training	RAS QUIRTAS POWER PLANT	QATAR, 2012
Basic vibration analysis presentation	Saudi Shell Refinery (SASREF) Company	Saudi Arabia, 2012
MHM hands on training	Saudi Shell Refinery (SASREF) Company	Saudi Arabia, 2012
CSI 2130 Hands on training	Saudi Shell Refinery (SASREF) Company	Saudi Arabia, 2012
Basic vibration analysis presentation	PETROKEMYA-SABIC Company	Saudi Arabia, 2012
MHM hands on training	PETROKEMYA-SABIC Company	Saudi Arabia, 2012
CSI 2130 Hands on training	PETROKEMYA-SABIC Company	Saudi Arabia, 2012
Basic vibration analysis course	KEMYA-SABIC	Saudi Arabia, 2012
Balncing for blower job	KEMYA-SABIC	Saudi Arabia, 2012
CSI 2130 Hands on training	KEMYA-SABIC	Saudi Arabia, 2012
Basic vibration analysis resentation	Dhurma Power Plant	Saudi Arabia, 2012
MHM hands on training	Dhurma Power Plant	Saudi Arabia, 2012
CSI 2130 Hands on training	Dhurma Power Plant	Saudi Arabia, 2012
Basic vibration analysis course	JALAL and sons Company	BAHRAIN, 2012
MHM hands on training	JALAL and sons Company	BAHRAIN, 2012
CSI 2130 Hands on training	JALAL and sons Company	BAHRAIN, 2012
Balance kit and motorview Hands on training	Dhurma Power Plant	Saudi Arabia, 2012
Basic vibration analysis presentation	OMIFCO	Oman, 2012
MHM hands on training	OMIFCO	Oman, 2012
CSI 2130 Hands on training	OMIFCO	Oman, 2012
Basic vibration analysis presentation	Maaden Aluminum Plant	Saudi Arabia, 2013
MHM hands on training	Maaden Aluminum Plant	Saudi Arabia, 2013
CSI 2130 Hands on training	Maaden Aluminum Plant	Saudi Arabia, 2013
Basic vibration analysis presentation	YANSAB Company	Saudi Arabia, 2013
MHM hands on training	YANSAB Company	Saudi Arabia, 2013
CSI 2130 Hands on training	YANSAB Company	Saudi Arabia, 2013
Vibration Wireless	Lubref Company	Saudi Arabia, 2013

system commissioning		
CSI 6500 protection online system commissioning	ARAMCO QATIF	Saudi Arabia, 2013
CSI 6500 protection online system SAT	ARAMCO QATIF	Saudi Arabia, 2013
CSI 6500 Protection online system customer training	ARAMCO QATIF	Saudi Arabia, 2013
CSI 6500 Protection online system customer training	SWCC JUBAIL	Saudi Arabia, 2013
CSI 6500 Protection online system Service job	SWCC JUBAIL	Saudi Arabia, 2013
CSI 6500 Protection & prediction online system commissioning job	KOC-PETROFAC	KUWAIT, 2013
CSI 6500 Protection & prediction online system Customer training	KOC & KNPC-PETROFAC	KUWAIT, 2013
CSI 6500 Protection & prediction online system service job	KOC-PETROFAC	KUWAIT, 2013
Basic vibration analysis presentation	IBN ZAHR-SABIC	Saudi Arabia, 2013
MHM hands on training	IBN ZAHR-SABIC	Saudi Arabia, 2013
CSI 2130 Hands on training	IBN ZAHR-SABIC	Saudi Arabia, 2013
CSI 6500 Protection online commissioning job	SWCC -SHOIBA	Saudi Arabia, 2013
CSI 6500 Protection online Closing punch list for the project	SWCC Shoiba	Saudi Arabia, 2014
Basic vibration analysis presentation	SAUDI ELECTRIC .Company (ABHA)	Saudi Arabia, 2014
MHM hands on training	SAUDI ELECTRIC .Company (ABHA)	Saudi Arabia, 2014
CSI 2130 Hands on training	SAUDI ELECTRIC .Company (ABHA)	Saudi Arabia, 2014
Oil analyzer Spectro 5200 Commissioning and customer training	ARAMCO HAWIYA GAS PLANT	Saudi Arabia, 2014
Oil analyzer Spectro 5200 Commissioning and customer training	MAADEN ALUMINIUM PLANT	Saudi Arabia, 2014
Basic vibration analysis course	UNITED – SABIC Company	Saudi Arabia, 2014
MHM hands on training	UNITED – SABIC Company	Saudi Arabia, 2014
CSI 2130 Hands on training	UNITED – SABIC Company	Saudi Arabia, 2014
Basic vibration analysis presentation	SABIC Ar Razi	Saudi Arabia, 2014
MHM hands on training	SABIC Ar Razi	Saudi Arabia, 2014
CSI 2140 Hands on training	SABIC Ar Razi	Saudi Arabia, 2014

Vibration Wireless system Project cooling tower 72 of CSI 9420	SAUDI CHEVRON PHILIPS (S- CHEM) Company	Saudi Arabia, 2014
Basic vibration analysis course	Saudi Electric company Rabigh	Saudi Arabia, 2014
MHM hands on training	IBN ZAHR-SABIC Rabigh	Saudi Arabia, 2014
CSI 2130 Hands on training	IBN ZAHR-SABIC Rabigh	Saudi Arabia, 2014
CSI 6500 protection/prediction commissioning job	SWCC Shoiba	Saudi Arabia, 2014
ONLINE SYSTEM PROJECT	SEC Rabigh	Saudi Arabia, 2015
LEAD LONG TERM RELIABILITY PROJECT	SADARA	Saudi Arabia, 2015
VIBRATION ANALYSIS JOB	YANSAB	Saudi Arabia, 2015

- Field of experience :**
- CMRP, ISO CAT IV.
 - Professional Reliability and Condition Monitoring Expert Engineer.
 - More than 12 years experience in Reliability solutions, condition monitoring, Lubrication program and Rotor dynamics for rotating equipment across a diverse range of industries such as: gas production/liquefaction (LNG), petrochemicals, refinery, Fertilizer, Ammonia, Mining and gas, Power Stations.(MIDOR, AMOC, SAB IC, ARAMCO, MAADEN, SEC, SHELL, BP, TOTAL, SADARA, ADNOC, KOC KNPC, OMIFCO, ORY X, RASGAS, QATAR GAS, EQUATE, QATAR STEEL, AIR LIQUID, YANSAB, SASREF, KEMYA, PETROKEMYA.
 - Experience in the specification, selection, maintenance and development of most types of rotating equipment particularly pumps, reciprocating/turbo compressors, steam turbines, gas turbines, turbo expanders and liquefied.
 - Certified ISO CAT IV vibration Analyst from Mobius inst.
 - Certified reliability and maintenance professional CMRP from SMRP.
 - Expert in commissioning, troubleshooting and interpretation for the online system CSI 6500 and portable CSI2130, CSI 2600, wireless system, oil analyzer CSI 5200 also have a good knowledge for our competitor's products in the market (Bentley Nevada, Shinkawa, SKF).
 - Expert in oil analysis and thermography Camera (FLIR T1K, FLIR E Series, FLUKE).
 - Very good relationship with our customer's Key persons in Middle East and well knowledge for market needs.
 - Interpretation for the online system Bentley Nevada system 1.
 - Certified instructor for Emerson vibration courses and Emerson products.
 - Emerson Consultant for condition monitoring In MEA middle east and Africa (Emerson ambassador).
 - Experienced in static equipment with knowledge of most types of process plant equipment for example boilers, tanks, vessels, heat exchangers and piping to ASME, API and British standards.
 - Certified level II in NDT for the 5 methods.
 - Highlights of qualifications:
 - Category IV vibration analysis, Antwerp - Belgium.
 - Category III vibration analysis exam Certification from Mobius Institute, Victoria, Australia.
 - Rotor dynamics and balancing Vibration inst.

- NDT Level II in the four methods from Atomic inst.
- Familiar with most of rotating equipment according to API.
- Familiar with overall maintenance and troubleshooting.
- Certified CMRP from SMRP.
- Report writing Certification from Oil and Gas Company.
- ICDL Computer Certification from Microsoft.
- Leadership skills.