

# 100580-ICX-1CMOS-E-2001

## Instrument Maintenance Engineer

Holds a B. Sc. in Electronics & Communication Engineering and a M. Sc. in Electrical Communications Engineering. Has over 14 years hands-on experience working in I&C, maintenance, operation, start-up and commissioning at several Power Plants.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 08/01/1980  
Gender : Male  
Marital Status : Married  
Residence : Currently Kuwait

### EDUCATION

: B. Sc. in Electronics & Communication Engineering, Mansoura University, 2001  
: M. Sc. in Electrical Communications Engineering, Mansoura University, 2006  
: Preparing PhD in Electrical Communication Engineering at Mansoura University, from 2007 till now

### LANGUAGES

Arabic : Native Language  
English : Very Good

### COMPUTER SKILLS

: Windows, MS Office, Internet

### TRAINING COURSES AND CERTIFICATIONS

: Training in basic software language.  
: Certification on Windows from Scientific Computer Center - Mansoura University.  
: Certification on JAVA + C from Scientific Computer Center - Mansoura University.

### CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Oct. 2013 till now  
Employer : Ministry of Electricity and Water, Kuwait  
Project : Sabiya Power Station

**Job title** : Specialist Instrument Maintenance Engineer  
**Job Description** :

- Manpower supply AL DHOW Company from September 2016.
- Manpower supply Kharafi National Company from October 2013.
- Responsible for I&C maintenance of Sabiya 4 GE Frame 7EA Gas Turbines, Control System (MARK VI).
- Responsible for I&C maintenance of Sabiya LM6000 PC Gas Turbines, Control System (Woodward Micronet Control).
- Responsible for I&C maintenance of Sabiya Distillation Plant with Recarbonation System, Control System (Siemens DCS Telperm-XP/T2000).

**Dates** : From May 2010 till Oct. 2013

**Employer** : Ministry of Electricity and Water, Kuwait

**Project** : Az Zour South Combined Cycle Power Station (1500MW)

**Job title** : Specialist Instrumentation & Control Engineer

**Job Description** :

- Manpower supplied by Kharafi National Company to MEW.
- Responsible for I&C maintenance of the 8 Siemens Gas turbines V94.2A (SGT5-2000E) and 8 CMI HRSGs and 2 Siemens steam turbine (SSTx-4000), apply the required maintenance program on all instruments and equipments to minimize problems and shutdown scheduling to ensure timely and appropriate solutions are adopted avoiding major breakdown.
- Responsible for routine, preventive and corrective maintenance for combined cycle control system (TXP / SPPA T2000).
- Perform preventive, corrective and diagnostic maintenance on the process control systems and control loops. And perform the required routine maintenance (daily, weekly, monthly...etc.) for all systems.
- Good hands-on working experience in repair, testing & calibration of various Instrument with in-depth technical knowledge of process Instrument / Sensors / Transmitters, Control Valves, etc.
- Responsible for reviewing plant maintenance activities during testing, troubleshooting, preventive and breakdown maintenance of plant, instrumentation and turbine control system, along with associated equipment, provide procedures and standards to improve these activities.
- Prepare the recommended spare parts for the future and inspect the incoming new materials and conduct material evaluation to determine acceptability based on purchase acceptance standard set by the MEW. Operation of plant electrical system (3.3KV switch gear & auxiliary transformers). Pump house (670 HP, 11200 T/H). Condenser cooling pump, raw & chlorine pumps, Bop & MAC equipment (Air compressors, E.H.C hydraulic system).

**Dates** : From Jan. 2009 till May 2010

**Employer** : Middle Delta Electricity Production Co.

**Project** : Talkha Combined Cycle Power Plant (300MW)

**Job title** : Instrument Maintenance Engineer

**Job Description** :

- Routine maintenance, calibration, repair the field instruments pressure, Temperature, level, flow and limits (switches and transmitters) local, pneumatic, controllers, positioner, converters and solenoid valve.

- Maintenance of valves (electrical & pneumatic).
- Check the electrical signals, signal wiring and connections.
- Maintenance and troubleshooting the process control units of Mark II & III.
- Repairing the electronic cards and change the internal components resistance's coils, etc.
- Maintenance and calibration of Transmitters & analyzers of the PH conductivity, concentration and oxygen analysis also flow meters of the water treatment plant.
- Steam turbine stop control valves, emergency hydraulic system and vibration Probes maintenance and troubleshooting.

**Dates** : From Jun. 2008 till Jan. 2009  
**Employer** : SKODA PRAHA Company  
**Projects** :

- New Talkha
- El-Kureimat II 750MW Combined Cycle project

**Job title** : Start-up & Commissioning Engineer  
**Job Description** :

- Operate with DCS system and use ovation application during bypass operation, Steam blow, testing and loading of ALSTOM and HITACHI steam turbine.
- Commissioning Work: Loop check; live test and official test for all instruments, pneumatic control valves and on/off valves to DCS.
- Troubleshooting internal and external fault in modules in DCS (OVATION system).

**Dates** : From Apr. 2008 till Jun. 2008  
**Employer** : CMI Company  
**Project** : Talkha Combined Cycle (750MW)  
**Job title** : Commissioning Engineer  
**Job Description** :

- Preparing & check up all valves and circuits of the boilers for operation steps.
- Shift Engineer, controlling the boilers from locally and control room.

**Dates** : From Sep. 2005 till Apr. 2008  
**Project** : Talkha Power Plant:  
The project consist of 8 HRSGs (Vogt Co. made, 47 t/hr, 52 bar, Dmc controlled), feed water pumps (250 HP, 82 bar), Pump house (670 HP, 11200 t/hr), Condenser cooling pump, raw & chlorine pumps, Bop & MAC equipment (Air compressors, E.H.C. hydraulic system).  
**Job title** : Shift Engineer  
**Job Description** :

- Operating plant equipment including start-up, shutdown, control, monitoring and defects reporting.
- Operation of 2x50MW GE steam turbine stage 405 speedtronic & Mark III controlled.
- Operation of plant electrical system (3.3KV switchgear & auxiliary transformers).

**Dates** : From Sep. 2004 till Sep. 2005  
**Project** : Talkha Power Plant

- Job title** : Gas Turbine Shift Engineer
- Job Description** :
- Operation of 8x25MW GE F5 Gas turbine PP equipment & their auxiliaries, speedtronic Mark II control system.
  - Operating & maintaining the power plant with the maximum availability.
  - Observing job progresses, hence reporting to concerned regarding conditions noted and actions taken implementing preventative and corrective maintenance procedures, troubleshooting actual and potential problems area and implementing viable solutions.
  - Raising defects for equipment & doing isolation according to the work order permit.
  - Operation of electrical system (220KV switchgear & 11.5/220KV Transformers).
  - Abnormal & Emergency operations & start-up & shutdown of power units.
  - Handling plant fire fighting & fuel system.
- Dates** : From May 2003 till Sep. 2004
- Employer** : Ministry of Water Resources and Irrigation
- Job title** : Maintenance Engineer
- Dates** : From 2001 till Dec. 2002
- Employer** : Egyptian Army
- Project** : Military Service
- Further experience** : Worked 18 months as Hardware Maintenance and Network Installation Trainer in Computer and Internet Center in Mansoura.
- Field of experience** :
- Experience in the field of instrumentation & control related to the field of procurement, installation, construction supervision, calibration, maintenance, pre-commissioning, commissioning and start-up in the power stations gained on international projects.
  - Experience in diagnostic check, troubleshooting and maintenance of instrumentation and control in Power plant. Through understanding of Control Loops, Field instruments and Control Actuator, Calibration and Maintenance.
  - Knowledge and working experience on different control systems such as DCS, PLC, Fire Fighting Systems. Practical experience in GE-Speedtronic, Siemens DCS Telperm-XP/T2000, SPPA T3000, Simadyn-D Controller, FAIL Safe systems (S5 95F system), PLC SIAMTIC-S5 / S7, LM6000 Gas Turbine, Allen Bradley PLC, gas detection system, gas flow computers, gas chromatograph analyzers, and Continuous emission monitoring system (CEMS).
  - Good working experiences with hazardous area instrumentations in the field of gas and oil.
  - Good working experiences with Gas, and Steam Turbines and HRSG`s.
  - Capable to follow the progress of all projects assigned during design and construction phase.
  - Capable to plan, prepare, and execute start-up and commissioning activities for turbine controls such as Steam, Gas turbine control application.

- Tender evaluation.
- Having hands-on experience in routine, breakdown, preventive maintenance and shut down activities in power plants.
- Proficient in interpretation of control diagrams including PID, Ladder logic, hard wire relay logic, function blocks and loop drawings.
- Good knowledge in computers, software, hardware and peripherals, able to work with multiple operating systems (DOS, windows, Linux and Unix) and DCS Network System.
- Constructing and maintenance networks with various versions of Windows.
- Complete knowledge of computer hardware maintenance, software recovery and have knowledge of using Microsoft Office.
- Skilled at building strong team environments, fostering open communications, promoting concepts of integrity, quality and teamwork.
- Fluent in English. Good communication & inter-personal skills. Can easily adjust to any ethnically diversified working environment.