

Holds a B. Sc. in Communication Engineering and has about 6 years hands-on experience working in I&C field of Power Stations.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 11/02/1979  
Marital Status : Married

## **EDUCATION**

: B. Sc. in Communication Engineering, Tanta University, 2005

## **LANGUAGES**

Arabic : Native Language  
English : Excellent

## **COMPUTER SKILLS**

: Windows, UNIX, MS Office, Internet  
: SCADA System WIN CC, SCADA System IFIX  
: PLC programming (SIEMENS, ALLEN BRADLEY)

## **TRAINING COURSES AND CERTIFICATIONS**

- : Trainings at MITSUBISHI office:
  - DIASYS NETMATION (DSC), 2 weeks:
    - Installing the hardware and software.
    - How to use maintaining and managing the plant using (EMS).
    - How to use monitoring the plant using OPC.
    - How to use operating ACS.
  - Hydraulic and electrical control (Parker), 2 days:
    - Hydraulic system.
    - Maintenance of hydraulic system.
    - Electrical control system.
  - Vibration (GE), 3 days:
    - Vibration fundamentals.
    - Proximitator operations.
    - Support 3500 monitors.
    - System1 vibration signals.

- Electro hydraulic flow control servovalves (MOOG), 2 days:
  - Outline of servovalves.
  - Structure of typical servovalves.
  - Characteristics of servovalves.
  - Installation and adjustment.
  - Valve positioners used in power plants.
  - Details of LVDT.
  - Valve position controls system.
  - Loop gain.
  - Servocontroller.
- Gas Chromatograph (Elster), 2 days:
  - Gas chromatograph ENCAL 3000.
  - Flow computers model 2000 series.
  - Turbine meter SM-RI-X.
- Controllogix 5000 (Rockwell), 5 days:
  - Create and moodify an rslogix 5000 controller.
  - Download and uploading the project to controller.
  - Create tags and monitor data and make trend for input in rslogix.
  - Configure force I/O.
  - Troubleshooting and modify ethernet IP addresses using rslinx software.
  - Overview of panelview 1250.
- : Training in Siemens office (Sidi Krir 500KV Substation):
  - System overview.
  - DIGSI & SICAMPAS & SICAMOASCC.
  - Maintenance.
- : Summer trainings:
  - Electric Technology Co. – 2004:
    - Siemens Drives & Logo Programming.
    - SCADA System (WINCC).
  - Basic course in Siemens Logo Programming (2003).
  - Pirelli Tire Co. – 2001 & 2002:
    - SCADA System (INTELLUTION IFIX).
    - SIEMENS SIMATIC S5 & S7.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2010 till now
- Employer** : KHARAFI NATIONAL
- Project** : Al-Shabab Simple Cycle Power Plant (8x125MW)
- Job title** : I&C Construction & Commissioning Engineer
- Job Description** :
- Responsible for construction and calibration to all field devices.
  - Responsible for supervision and monitor the site labor force through general foreman and/or supervisors.
  - Commissioning support during start-up and commissioning period.

- Responsible for oversee the selection and requisition of materials for use in the construction to check whether the materials are as specified.
- Responsible for closed all instrumentation punch item.
- Responsible for loop check for filed device.
- Develop a relationship with the project engineer and prepare periodical reports on the progress of work.
- Construction & commissioning activities for RO & DEMI water plant (EMIT):
  - Responsible for construction and calibration to all field devices.
  - Responsible for cold loop check and hot loop check.
  - Responsible for make modification for logic and check graphic.
  - Responsible to give software training for owner.
- Construction & commissioning for BOP and DCS system:
  - Responsible for construction and calibration to all field devices.
  - Responsible for loop check for field device.

**Dates** : From 2007 till 2010

**Project** : Sidi Krir Power Station (2x320MW)

**Job title** : I&C Engineer

**Job Description** :

- Good experience in the field of instrumentation & control related to the field of procurement, installation, supervision, calibration, maintenance, in the power stations.
- Spare parts planning for steam turbine and auxiliaries.
- Responsible for review all tender documents for limited tenders for of the steam turbines and auxiliaries.
- Co-ordinate I&C maintenance activities related to the maintenance schedule of equipments.
- Good knowledge and working experience on different control systems such as Bailey Infi 90, Siemens Turbine control system (Teleperm XP), Wood word PLC (SIAMTIC- S5 / S7, Allen Bradely, Freelance 2000).
- Good knowledge and working experience on Hydrogen generation system.
- Good knowledge and working experience on different vibration supervisory systems (Vibrometer, Bentley Nevada).
- Responsible for the routine and the corrective maintenance for the steam turbine control system (Operation & Monitoring System OM 650, Engineering System ES 680, Automation System AS 620) and its instrumentation.
- Perform preventive, corrective and diagnostic maintenance on the process control systems and control loops.
- Perform the required routine maintenance (daily, weekly, monthly, etc.) for all skids of steam turbines.
- Perform the required predictive maintenance (daily, weekly, monthly, yearly) for all skids of steam turbines.
- Troubleshoot, repair, calibrate and test various types of process control instruments and relay logic, which include pneumatic, electrical and electronic instruments.
- Remove, dismantle, overhaul / repair and install electric, pneumatic, electronic or hydraulic control system such as control valves and actuators, recorders, measuring and recording instruments in the field or in the workshop.

- Perform upgrade and retrofitting of new control instruments to the existing panels in the field and main control room.
- Assist other sections such as electrical, mechanical and workshop in the repair and troubleshooting of their instrument and electronic related systems and test equipment.
- Monitor and report any I&C defect / deficiency in the plant or any deviation from the contractually specified scope.
- Good hands on working experience in repair, testing & calibration of various Instrument with in-depth technical knowledge of process Instruments / Sensors / Transmitters, DCS System, Control Valves, etc.
- Construction & commissioning & start-up of 500KV Project with SIEMENS:
  - Responsible for commissioning and start-up and test for control system SIEMENS SCADA SYSTEM (WIN CC) & SICAM PAS AND SICAM PASCC & SIPROTEC (DIGSI 4.71).
- Implementation of Sidi Krir Combined Cycle Power Plant (3x250MW):
  - Responsible for review all I&C specifications in drafts of tender documents such as gas turbine, steam turbine, water treatment, HRSG, BOP, etc.).
  - Review and comment on all I&C construction documents and drawings (P& ID), follow up all contractors' construction and responsible of walk down, loops check and function tests for HRSG and BOP.
  - Good experience in the field of instrumentation & control related to the field of procurement, installation, supervisions calibration, maintenance, in the power stations.
  - Spare parts planning.
  - Co-ordinate I&C maintenance activities related to the maintenance schedule of equipments.
  - Perform the required predictive maintenance (daily, weekly, monthly, yearly) for all systems.
  - Good hands on working experience in repair, testing & calibration of various instruments with in-depth technical knowledge of process Instruments / Sensors / Transmitters, DCS System, Control Valves, etc.
- Construction of 2 gas turbines MITSUBISHI (2x250MW):
  - Responsible for calibration to all field devices (transmitters, gauges, switches, shut off valves, control, valves, etc.) for two gas turbines model M701F.
  - Continue remaining construction work including:
    - Installation of instrument stations.
    - Erection of impulse tube.
    - Pressure and leak tests required.
    - Loop check for field device instrument.
    - Commissioning support during start-up and commissioning.
    - Responsible for close all instrumentation punch items.

**Dates** : From 2006 till 2007  
**Project** : El-Suof Power Station  
**Job title** : Operation Engineer  
**Job Description** : • Gas Turbine operation of 6x25MW BBC Gas Turbine power plant equipment & their auxiliaries Speed 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 areas 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 plant units.
- Handling plant fire fighting & fuel system.

Technical Skills:

- SIEMENS Software:
  - Teleperm XP
  - SICAM PASC
  - SCADA SYSTEM (WIN CC)
  - SCADA SYSTEM (WIN CC flexible)
  - SIMATIC Step 5
  - SIMATIC Step 7
  - Dlgis 4
  - Logo software
- ROCKWELL Automation:
  - RSlogix 5000
  - RSlogix 500
  - Rsvision 32
- YOKOGAWA Software:
  - CENTUM VP
  - CENTUM 3000
- GE Software:
  - Mark VIe
  - Mark VI
  - SIMPLICITY
- SCHNEIDER Software:
  - Vijeo Citect
  - Unity pro XL
  - Vijeo Designer
- MITSUBISHI Software:
  - DIASYS NETMATION
- ABB Software:
  - Bailey Infi 90
  - Composer