

104719-ICX-1CMOS-E-2000
Lead I&C Engineer / Site Manager

Holds a B. Sc. in Electronics Engineering and has about 17 years hands-on experience working in I&C field at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 13/01/1977
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Electronics Engineering, Menoufia University, 2000

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : The prescribed Honeywell training course in (TPS) OVERVIEW, Abu Sultan Steam Power Station (3 days).
- : Automatic Control Technology, Abu Sultan Steam Power Station (3 weeks).
- : Operation of Steam Power Station, Abu Sultan Steam Power Station (4 weeks).
- : Training course of TPS system (GUS) Implementation by Automation College Middle East, Abu Dhabi, Abu Sultan Steam Power Station (14 days).
- : Training course of TPS system GUS, LCN, UCN, HPM Maintenance by Honeywell Automation College Middle East, Abu Dhabi, Abu Sultan Steam Power Station (1 week).
- : Training Course of AC Motor frequency control, Supplied from Siemens, GTZ Center (1 week).
- : PLC (Siemens) STEP5 & STEP7, GTZ Egypt Center (1 week).
- : Turbine Control Using SPEEDDTRONIC MARK V, Abu Sultan Steam Power Station (1 week).
- : Alstom DCS Troubleshooting and maintenance, SUEZ GULF Power Station (1 week).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2013 till now
Projects :

- Hail Central 132KV/13.8 SS construction project
- Hail Power Plant 4x75MW SEIMENS Gas turbine construction project

Job title : Site Manager
Job Description :

- Team management (civil & electrical & I&C).
- Supervision and co-ordination of instrumentation and control systems modification work and installation up testing and commissioning under taken by contractors.
- Final testing and hot commissioning with handover to contractors.

Dates : From Oct. 2010 till 2013
Employer : ALFANAR Construction Company, Riyadh – Saudi Arabia
Project : KSA Hail Power Plant Combined Cycle SIEMENS turbine
Job title : Lead I&C Engineer
Job Description :

- Power Station construction – DCS & Instrumentation:
 - Providing inputs on budgets of control and instrument.
 - Providing the upgrading and modification of I&C systems.
 - Providing new design and system configuration for BOP and Turbine with all site facilities.
 - Design review and logic modification.
 - Engineering work support system upgrading, modification, instrumentation justification and replacement, logic modificationetc.
- Responsibilities included SPPA-T3000:
 - DCS design review.
 - DCS input/output list preparation.
 - Process Instrumentation selection and design.
 - Logic design for machine safety and process as per SIL levels.
 - Site construction and system installation.
 - Interfacing between DCS and other systems by suitable protocols mode bus, TCP/IP, OPC.
 - DCS Loop check, start up and commissioning.
 - DCS configuration and HMI design.
 - Instrumentation site mounting, calibration, interfacing with DCS.
- 4 years work under SIEMENS KSA supervision.
- As I&C Site Manager:
 - SIEMENS Gas turbine installation, testing, commissioning, start-up, ...
 - SPPA-T3000 Configuration, mapping, network, testing and commissioning.
 - AS3000 logic configuration.
 - CS3000 Configuration with protocol TCP/IP modbus interfacing and all tasks related to interfacing with BOP (OVIVO water treatment, GEA WESTFALIA FOTP,
 - Multiunit interfacing between SIEMENS servers.
 - Profibus interfacing.
 - HMI creation, mapping and all work related to application server.
 - Logic modification and all work related to automation server.

- Loop testing.
- SPPA-T3000 DCS High experience.

Dates : From Sep. 2005 till Sep. 2010

Employer : EDF

Project : Suez Gulf 650MW Steam Turbine Power Station

Job Description :

- Senior I&C Engineering – GED department (Group Engineering Department) (3 years):
 - Participate in Root Cause and Failure Analysis (RCFA).
 - Conceptual and front-end designs for modifications and projects.
 - Ensuring system reliability and maintenance, evaluating failures, selecting materials and development of maintenance systems and strategies.
 - Preparing of RCA (Root Cause Analyses), IR (Incident Report) and DR (Damage Reports).
 - Routine, Corrective and Preventative maintenance planning and study all new projects in the company, New modifications at any power plants and technical support for I&C Teams.
 - Design new control system and carry out the necessary modification according to I&C international standard ANSI/ISA, IEEE, ...etc.
- Instrument and Control Engineer - Maintenance department (2 years):
 - DCS ALSTOM P320 (DCS Boiler control system) maintenance and troubleshooting.
 - Toshiba (TOSMAP-DS) STEAM TURBINE CONTROL SYSTEM (DCS Turbine controller).
 - Field instrumentation calibration, maintenance, troubleshooting.
 - Commissioning of facilities and technical troubleshooting (e.g. control loop tuning).
 - Spare parts preparing and purchasing. Instrument/control engineering, procurement, construction, commissioning and project management.
 - Budget development, control, maintenance staff selection and staff development.
 - Power plant instrumentation routine maintenance and repair for turbines and boilers.

Dates : From Jul. 2000 till Aug. 2005

Project : Abu Sultan 600MW Steam Turbine Power Station

Job title : Field Instrument & Control Engineer (Maintenance department)

Job Description :

- Honeywell DCS Total Plant Solution "TPS" (TDC 3000) (DCS Boiler control system) installation, loop check and commissioning.
- SPEEDTRONIC™ MARK V STEAM TURBINE CONTROL SYSTEM (GE) (Turbine controller).
- Four GE 150MW Steam turbines.
- Gas Turbine (TUMA Gas Turbine (Turbo Mach)).
- Air Compressors (COMPAIR).
- Bentley Nevada 3500 Monitoring System for GE Steam Turbine.

- Field of experience :**
- Control systems:
 - SIEMENS SPPA-T3000 DCS system installation, Configuration, loop check and commissioning.
 - DCS ALSTOM P320. (DCS Boiler control system) maintenance and troubleshooting.
 - Toshiba (TOSMAP-DS) STEAM TURBINE CONTROL SYSTEM (DCS Turbine controller).
 - Honeywell DCS Total Plant Solution "TPS" (TDC 3000) (DCS Boiler control system) installation, loop check and commissioning.
 - SPEEDTRONIC™ MARK V STEAM TURBINE CONTROL SYSTEM (GE) (Turbine controller).
 - PLC step 7 and SCADA.
 - Integrated Control and Safety System (ICSS) and Plant Logic Controller (PLC) design installation and verification.
 - Rotary machine Instrumentation:
 - Machines:
 - Toshiba 340MW Steam turbine and Generator.
 - GE steam turbine 150MW.
 - SIEMENS Gas Turbine.
 - GE Gas turbine frame 6.
 - KSB pumps.
 - FD & ID Fans (Forced Draft fans & Induced Draft fans).
 - Air compressors.
 - Instrumentation:
 - VK-A Series Vibration System for Steam Turbine (Shinkawa Electronic).
 - Rovising & Sensonics vibration measuring systems.
 - Rotation speed and direction measuring. And its protection's.
 - Temperature measuring TC and RTD.
 - Speed variable and hydraulic coupler.
 - VSD.
 - Control and motorized valves.
 - Flow and Pressure measuring transmitters and local indicators.
 - Static equipment:
 - FW Boilers and its auxiliary's machines.
 - Burner Management Control System flam scanners and all fuel system.
 - Natural gas reduction and control station with all measuring and safety instruction according the API and international cods SIS, SIL, Area classification.
 - Oil and water storage tanks.
 - Water treatment systems.
 - H2 generation system.
 - Field Instruments:
 - Transmitters (Pressure, Flow and Level) Foxboro & Rosemount & ABB & Foji.....etc. all smart, Honeywell (ST 3000 Smart Transmitter with Smart Field Communicator "SFC").
 - CO, NO and NOX (gas emissions) Monitors (series2000). Carbon Monoxide Monitor (LAND 9200 MKII).
 - Positioners and Controllers ex: Masoneilan SVI, SIEMENS, PMV, AUMA, BERNARD, LIMIT TORUE.
 - Tank level measuring and control, tank radar.
 - Natural Gas reduction stations Valves, analyses and Gas

measuring systems. Gas chromatograph ABB & YAMATAKE & EMERSON. Flow computer omni & meci & fiomic31. Turbine meter and orifice calculation.

- Dram level measuring and control system.
- Boiler safety system and its protections.
- Management skills: Head of I&C construction department in AL FANAR construction.
- Design control systems according to ANSI/ISA-5.1-1984 (R1992) Standard codes.