100655-ICX-CMOS-E-2004
Senior I&C Engineer

Holds a B. Sc. in Electronics & Communication Engineering and has about 14 years hands-on experience in all project phases from initial engineering/design group supervision, instrument specification/purchase, production of all I&C related documentation/drawings, participation in factory & site acceptance tests through construction, commissioning and start-up. Project exposure (field & office) as Owner Engineer. Conversant with a wide variety of Instrument and PLC, DCS. Experience with a wide variety of Instrument, Control systems consisting of DCS such as, Bailey INFI90, ABB Symphony Harmony and Emerson Ovation as well as PLC such as Siemens Step 5 & 7.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	28/06/1982
Gender	:	Male
Marital Status	:	Married
Residence	:	Damanhour

EDUCATION

: B. Sc. in Electronics & Communication Engineering, Alexandria University, 2004

: Preliminary Master Distributed Control System (DCS); design and implementation of boiler combustion control system (GPA 3.7/4.0)

LANGUAGES

Arabic	:	Native Language
English	:	Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Operation & maintenance of Thermal Power Plant: Steam boiler Babcook Wilcox boiler and Ansaldo turbine (1x325MW).

: Courses in DCS (Distributed Control System) and DCS ABB Symphony Harmony INFI 90 with HMI PGP 4.1:

- Installing, Configuring, maintenance and troubleshooting of the system.
- Design and implementation software programmers using software package.

: DCS EMERSON OVATION (Kuwait).

: Turbine supervisory instrumentation (TSI – CEMB monitoring / supervisory system).

: Attended courses of beginner and advanced levels in PLC SIMATIC STEP 7 (Basic Programming and Configuration):
- Design motor control and closed loop control**.**
- Installing, Configuring, maintenance and troubleshooting of the system.
- Design and implementation software programmers using software package (Simatic S7 v5.5).

: English course (TOEFL).

: SPEEDTRONIC Mark VI Turbine Control System.

CHRONOLOGICAL EXPERIENCE RECORD

Employer : West Delta Electricity Production Company (WDEPC)
Project : Zawya Ghazal Thermal Power Plant (320MW), Egypt
Job title : Senior I&C Engineer
Job Description : Calibrate, test, maintenance for instrumentation such as temperature, flow, level, differential pressure, pressure transmitters and switches, hydraulic and pneumatic valves (control & On/Off) and motorized valves and troubleshooting of control systems (PLC, DCS), replaces worn, damages or failed equipment and components.

Dates : Aug./Sep. 2015
Employer : Methanex Corporation
Job title : Commissioning Engineer
Job Description : Continuity loop check for (more than 1000 Loops) wrong and missing loop ESD system for two thermal power units 12MW and methanol production systems and modify instrument loop diagram sheets with correct data.

Dates : From Jan. 2012 till Dec. 2014
Employer : West Delta Electricity Production Company (WDEPC)
Project : Zawya Ghazal Thermal Power Plant (320MW), Egypt
Job title : I&C Engineer
Job Description :
- Working in rehabilitation project Power Plant 300MW. Supervision of instrumentation and control system and responsible for the oversight of I&C day to day engineering activities. Also have to ensure that design and implementation of I&C systems are done in accordance a good quality for installed equipment and insure that the contractors ABB follow the contract.
- Supervision and inspection of day-to-day construction activities of Instruments. Installation, Instrument cable laying, conduit installation, JB installation, Hook up installation, calibration and control cabinet's (DCS – ABB Symphony Harmony) installation in relay room and perform termination, continuity cable and earth test at the stage of construction. I was actively involved in study and revised technical specifications of submittals.
- Inspection, punch list walk downs and Surveillance notes for construction activities of Instruments and control system. Tasked to prepare loop check, verifying logic and function test at the commissioning stage to start-up and reliability test.

Dates : From Jun. 2011 till Jan. 2012
Employer : Kharafi National Company
Project : Shuaiba North Combined Power Plant, Kuwait
Job title : I&C Engineer
Job Description : Maintenance of instrumentation, test and calibrate and troubleshooting of control systems, replaces worn, damages or failed equipment and components to support power plant operation, as the control systems consist of: Hyundai HRSG is controlled by DCS – Emerson Ovation & Toshiba Steam turbine controlled by DCS- tosmap.

Dates : From Jun. 2010 till May 2011
Employer : Kharafi National Company
Project : Doha West Power Station (8x320MW), Kuwait
Job title : I&C Engineer
Job Description : Maintenance of instrumentation, test and calibrate and troubleshooting of control systems, replaces worn, damages or failed equipment and components to power support plant operation, as the control systems consist of:

- BBC Procontrol Decontic is controlled the auxiliary systems such as, gas reducing station, fuel regeneration and steam transformer.
- RLC (Relay logic control) is controlled the water treatment plant, water intake, compressor and air dryer system and colure generation plant.
- Distributed Control System (DCS – ABB Procontrol 14) is controlled the fuel pumping station and GE Bentley Nevada 3300 for monitoring of vibration and temperature of motor driven pumps.

Dates : From Jan. 2010 till Jun. 2010
Employer : NEM Co.
Project : El-Atf Combined Power Plant (750MW)
Job title : DCS Commissioning Engineer
Job Description : Conducting of loop check (more than 3000 Loops), verifying the logic and perform function test for two big HRSG projects which is controlled by Yokogawa (CENTUM) at the stage of commissioning.

Dates : From 2005 till Jan. 2010
Employer : West Delta Electricity Production Company (WDEPC)
Project : Zawya Ghazal Thermal Power Plant (320MW), Egypt
Job title : I&C Engineer
Job Description : Maintenance of instrumentation, test and calibrate and troubleshooting of control systems, replaces worn, damages or failed equipment and components to support power plant operation, as the control systems consist of:

- Distributed Control System (DCS – ABB Symphony Harmony) is controlled the Babcock Wilcox steam boiler and auxiliaries.
- Electro-Hydraulic Control (EHC – Elsage Bailey) is controlled the Ansaldo steam turbine and TSI (Turbine Supervisory Instrument) for monitoring rotor stresses, vibration, differential/absolute expansion and eccentricity.

- Programmable Logic Control (PLC – Siemens Step 5 & 7) is controlled the waste water and demineralization plant and Hydrogen generation.

Field of experience :

- Field instrument:
  - Calibrate, test, maintenance for instruments such as temperature, flow, level, differential pressure, pressure transmitters and switches, level controller, pressure controller, temperature controller, pneumatic valves (control & On/Off) and motorized valves in the following systems:
    - Boiler.
    - Turbine and auxiliaries.
    - Demineralization plant and waste water treatment plant.
    - Hydrogen generation plant.
- Instrument manufacturers:
  - Boiler:
    - Level-temperature-flow (transmitters) ABB.
    - Pressure, differential pressure transmitters by ABB and Siemens.
    - Thermocouple: Pitco (type K- Italy).
    - R.T.D.: PT 100. Pitco-Italy.
    - Flame detection systems (fire eye).
    - On/Off valves (pneumatic-motorized) Parcol and Rotork.
    - Pneumatic pressure & temperature controllers: Emetics (USA).
    - Control system: Distributed control system (DCS) INFI90 made by Hartmann & Braun ABB Co. used in B.M.S. which is include the firing sequence of burners either by light fuel oil (igniters) or Burners (heavy fuel oil or natural gas) also used in controlling related to combustion control system and also Forced Draft fan (F.D.F.) and gas recirculation fan (G.R.F) and secondary air control loops.
    - PLC step 5 made by Siemens used in soot blowers system.
  - Turbine & Auxiliaries:
    - On/Off motorized valves: Biffy, STI (Italy), Fisher (USA).
    - On/Off valves (pneumatic): Parcol (Italy).
    - Control system (E.H.C): by Elsage Bailey co. which is including different control loops such as: speed control unit, load control unit and flow control unit which gives a current signal to servo valves.
    - Temperature transmitters: Hartmann & Braun.
    - Flow transmitters: Hartmann & Braun.
    - Vibration sensors, differential expansion, absolute expansion, thrust bearing wear detectors, speed sensors and rotor axial position instruments.
    - Pneumatic pressure and temperature controllers: Ametic (USA).
  - Demineralization and waste water plant:
    - Level transmitters: Hartmann & Braun.
    - Flow transmitters: Hartmann & Braun and Rosemount.
    - Control valves: STI (Italy) and Fisher (USA).
    - PLC used in control of plant (SIMATIC S7 Siemens).
  - Hydrogen generation plant:
    - Level transmitters: Hartmann & Braun.
    - Flow transmitters: Hartmann & Braun and Rosemount.

- PLC used in control of plant (SIMATIC S7 Siemens).