101658-MET-1CDix-E-2007
Lead Electrical & Automation Engineer

Holds a B. Sc. in Mechatronics Engineering and has about 13 years of engineering experience in diversified project design in Process Control System Engineering.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	01/10/1984
Gender	:	Male
Marital Status	:	Single
Residence	:	Cairo

EDUCATION

: B. Sc. in Mechatronics Engineering, Ain Shams University, 2007

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Inventor
: AutoCAD
: OPC SERVER configurations
: Programming using C language

TRAINING COURSES AND CERTIFICATIONS

: TUV certified: certificated No: TÜVFSENG 4269/11.
: I/A Series configuration, Invensys, Egypt.
: PID Tuning (regulatory control and PID tuning, Invensys, Egypt.
: Communication protocols (Mod Bus, FBM224, HART, TCM, OPC, DDE, TSAA, P2P, NCM), Invensys, Egypt.
: Hard ware course and system definition for Triconex.
: Hardware and earthing course, Invensys, Egypt.
: Wonderware course Invensys, Egypt.
: Intouch v10.0, Invensys, Egypt.
: Triconex course #8902, #8903, #8950, Invensys, Egypt.

: Basics of CCS Compressor Control System Training.
: VB programming, Invensys, Egypt.
: CAD drawing, Invensys, Egypt.
: Hydraulic & pneumatic circuit control and installation, TCC Institute.
: Plc (SEMINES) S5, TCC Institute.
: MATLAB (GUI, image processing, Simulink).
: Microcontroller Programming & interface with (C), IT Builder.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2008 till now
Employer : Schneider Electric, Cairo
Job title : Lead Electrical & Automation Engineer
Job Description :

- MEW-43/47 (Sabiya Power Station / Doha West Power Station) (Kuwait):
  - Full scope project, H/W cabinet design.
  - Software design and implementation.
  - Integration and cabinet installation.
  - FAT and integration Triconex with the DCS - in USA Boston Office.
- Yanbu Phase 3 Power Plant site (DCS (Foxboro) and ESD (Triconex)) (Yanbu City):
  - Cabinet installation and power up.
  - SAT for the DCS and ESD.
  - BMS specialist (Burner management system).
  - Wiring team supervise.
  - Loop check.
  - Field instrument installation and calibration.
  - Function check.
  - Full system network check and preparation.
  - Integration between the DCS and ESD.
  - Modbus list implementation.
  - Communication with Third party (between the DCS and other systems).
  - Communication with MCC, turbine, compressors.
  - Switch configuration.
  - System historian configuration.
  - Boilers function check and start up (ESD and DCS).
  - Sync the turbine and the Boiler.
  - Transmitters tuning.
  - Synchronize the power station with KSA power network.
  - Siemens 200 power up and communications setup.
- South Helwan Power Plant (Egypt):
  - Full scope project H/W cabinet design.
  - MFT relay cabinet for boiler S/D.
  - Software design and implementation.
  - Integration and cabinet installation.
  - FAT and integration Triconex with the DCS in free Zone Suez City.
- EDF Plant (France): The Graphics for all the Plant using VISO CITIC.
- Kemya, Utility Plant (in Jubail City):
  - Site activity for ESD (Triconex).

- Cabinet power up.
- SAT activity.
- Field instrument calibration.
- BMS specialist.
- Loop check and function check for the BMS system (3 boilers in series connection).
- Boilers start-up.
- Integration the DCS (Honeywell).
- Communication with special safety network configuration.
- GPS configuration.
- Local and filed HMI configuration and link to the safety network.

- SATORP, Mega Petrochemical Project (Aromatic Plant) (FAT in Singapore, Site activity in Jubail City):
  - BMS specialist.
  - BMS logic implementation.
  - ESD interlocks implementation.
  - FAT activity.
  - Function check and logic validation (FAT).
  - IFAT with FOXBORO DCS.
  - Site activity (site lead).
  - Cabinet power up and installation.
  - Loop check and function check for the BMS system (4 boilers in series connection).
  - Boilers start-up.
  - Boiler graphics modifications.
- KAYAN Mega Project (in Jubail City) U&O Plant, EOEG, HDPE, Amines:
  - Site activity for ESD and FGS (Triconcs – building FGS De-Troinex).
  - Cabinet power up.
  - SAT activity.
  - Loop check and function check.
  - FGS specialist.
  - FGS detectors installation.
  - Integration the DCS (YOKOGAWA).
  - Communication with FGS network configuration.
  - Local and filed HMI configuration and link to the safety network.
  - OMS system logic implementation and start-up.
  - De-Troincs Local building FGS system configuration.
  - Wonderware HMI graphics configuration.
- RC - Jubail (local office Cairo): Logic implementation for the ESD system (Triconex).
- BOROGUE (ABU DHABI): Shut down and start-up activity for the ESD system (Triconex).
- KURAIS, KUC Plant (in Jubail City):
  - Site activity for ESD (Triconex).
  - Cabinet power up.
  - SAT activity.
  - Loop check and function check.
  - Integration the DCS (YOKOGAWA).

Field of experience :

- Hands-on experience of industrial automation, oil and gas, power management and petrochemical industries.

- Senior and Leading role in many Automation projects.
- Specialties and senior Engineer with Schneider-electric, DCS, ESD, HMI and SCADA providing control systems for several types of Process like Power, Oil and gas, Petrochemical and Refinery.
- Totally responsible for the engineering of large-scale/technically complex systems projects. Will be required to use a high degree of analytical thinking, creativity and resourcefulness in solving unique technically complex problems, to be able through experience and specialized knowledge, to interpret the client's technical requirements, advise on engineering philosophies and solutions, the overall designs of the system and the application of Invensys Process System (IPS) products.
- PLC (Triconex) expert.
- DCS Foxboro senior.
- Worked extensively in Egypt, around Europe, Middle East, Africa, Central Asia and The Far East.
- Skills:
  - PLC (Triconex, Trident, De-Tronics, MODICON M340).
  - DCS FOXBORO.
  - Ladder diagram, C programming and Cause and Effect.
  - Good knowledge with DCS (YOKOGAWA & Honeywell).
  - Good knowledge with GE PLC (Bentley Nevada 3500).
  - Siemens 200/ Step 7.
  - Instrumentation and control.
  - Instrument calibration and troubleshooting.
  - Database and serial link (MODBUS).
  - Communication protocols.
  - ESD engineering.
  - FGS philosophies and control.
  - BMS control specialist (burner Management system).
  - Compressor control.
  - OMS control (oxygen mix station).
  - WONDERWARE (Intouch).
  - VISO.
  - Control cabinet design and installation.
  - P&ID.
  - SQL queries.
  - Loops Troubleshooting.
  - Hydraulic & pneumatic basics control.
  - Understanding the IEC standard (IEC 508, IEC 511).
  - Microcontrollers.
  - High experience in customer handling.
  - High experience in site activity.
  - Networking design and set up.