

Holds a B. Sc. in Electronics & Electrical Communications Engineering and an Automation Engineering Diploma. Has about 10 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/03/1984
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Electronics & Electrical Communications Engineering, 2006
: Automation Engineering Diploma, 2009

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet
: Electronic workbench (design & layout)
: Programming in C++ & VHDL language
: Programming in VISUAL BASIC language

TRAINING COURSES AND CERTIFICATIONS

: Training for 6 months in Siemens Power Academy about Power Plant Operation in Egypt and Germany.
: Management & leadership training course.
: Foundation Training from "Edge Consultant" in the following topics: EHS mindset and Positive mindset.
: Language Training (NAS Academy).
: Fundamental Training from "KWS Organization" in the following topics:

- Mechanical (Thermodynamics, Fluid dynamics, Pumps, Valves and Pipes).
- Electrical (Basics, Installations and I&C Systems).

: Combined Cycle Power Plant (CCPP).
: Basic Operation Training (Electrical and I&C Gas Turbine (SGT5 - 8000H)).

- : Component Specific Training (Maintenance of Gas Turbine (SGT5 - 8000H).
- : Simulator Training (SPPA T3000 Operating system).
- : Mini master course in Industrial Human Factor Engineering.
- : Basic operation training in water treatment.
- : GIS training course.
- : Basic course of the Operation and maintenance of Steam Power Stations in El-Kureimat Training Center.
- : GE training course in MARK (V & VI) control system Gas & steam turbines.
- : Siemens Training course in operation of steam turbine.
- : Training course in GE turbine control sys (Mark V CONTROL).
- : Training course by GE Company in Egypt in how to use: (Simplicity - HMI) to Upgrade the MARK-5 system to be working under windows.
- : Firefighting technology & its systems at El-Kureimat Power Station.
- : Holcim certified in PM & vibration analysis.
- : TV & PCB production line at Gold Star Company.
- : ICDL certified.
- : Don Bosco certified in electronic maintenance.
- : Instrumentation course at National Cement Company.
- : VLSI-based communication application design at Faculty of Engineering, Ain Shams University.
- : Optical communication at Ministry of military production.
- : PBX course at Panasonic Company.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2016 till now
- Project** : Beni Suef 4800MW Power Plant (Combined Cycle 4x1200MW):
- 8 Gas turbines (SGT5-8000H) 400MW + 4 Steam Turbines (SST5-5000) 400MW + 12 Synchronous generators (SGEN5-2000H) 478MVA (Siemens).
 - 8 Benson Boilers once through (NEM – Netherland).
 - Water treatment plant (TME - Italy) Control system is S7-400 PLC.
 - 5 fuel gas compressor 5MW (Hothodata - Germany) control system Siemens S7-400.
 - The plant is controlled via SPPA T3000 DCS control system.
- Job title** : Senior I&C Engineer
- Dates** : From Nov. 2010 till Apr. 2016
- Employer** : Upper Egypt Electricity Production Co.
- Project** : El-Kureimat 2x650MW Power Plant:
- 2 Steam Turbines, 650MW each (GE), Control system is MARK V.
 - 2 Conventional Boilers, 36 Burners (BABCOCK WELCOX – Canada).
 - Water treatment plant (BAMAG) Control system is PLC GE FANUC.
 - The plant is controlled via WESTINGHOUSE DCS control system.
- Job title** : I&C Engineer
- Job Description** : • Maintenance of the field installed devices and troubleshooting for any problem occurred in the field of instrumentation.

- Working on GE turbine control system (MKV speedtronic) for large Steam Turbines (2x650MW) in the field of loop checking the system and maintenance of field instruments related to turbine control system.
- Calibrating all kinds of field instruments connected to turbine different systems (Control valves, motorized valves, switches, indicators, transmitters, field Controllers and analyzers).
- Working as a Maintenance Engineer on turbine supervisory instruments (Bentley Nevada system).
- Preparing the required spare parts list and preventive maintenance schedules.
- Analyzing and troubleshooting the problems related to hardware or Software for control systems.
- Working on Allen Bradley PLC for turbine Bypass system.
- Maintenance Engineer in GE TURBINE CONTROL SYSTEM (MARK V CONTROL) for turbine instruments installation, Test, Calibration & Maintenance for all Field Instruments on the following systems:
 - Lube oil system.
 - H2 seal oil system.
 - Oil purifier & Oil conditioner systems.
 - Steam seal & Gland steam condenser systems.
 - Hydraulic system (EHC).
 - Bypass system.
 - Stator cooling system.
- From Dec. 2011 till Mar. 2012: Overall Outage for GE LST (2x650MW) to maintain turbine Aux. systems:
 - Upgrade MKV system from <I> to <HMI> by change MKV EEPROM and software in order to use simplicity software under WINXP.
 - Working on BFPT as an I&C Maintenance Engineer for both turbine and pump.
 - Maintenance Engineer for FIRE FIGHTING System (Water SYS / SPRINKLER SYS / Pre- action SYS / Foam SYS / FM 200 SYS).
 - Perform the overhaul outage for steam turbine unit No. 2 (650MW) as follows:
 - Dismount the entire turbine supervisory instrument and calibrate vibration probes using GE test kit.
 - Install turbine supervisory instruments and adjust the offset for: Differential expansion, wear detector for thrust bearing, eccentricity, speed sensor, rotor expansion and key phasor.
 - Calibrate the instrument for all turbine auxiliary systems.
- Working as a Maintenance Engineer in the following fields:
 - Air Compressors (PLC Controller):
 - Checking, Testing Logic Circuits (Using Allen Bradley PLC 5, SLC 500) and Commissioning, Loop Check All Control Circuits.
 - Trouble Shooting & Maintenance Software and Hardware.
 - Calibration All Field Instruments for Air Compressors and Sequencing PLC Control.
 - Water treatment Plant and waste water:
 - Loop Check, Calibration, Maintenance for All Field Instruments.
 - Water Treatment and Polishing System using (GE Fanuc LM 90-70).

- Check All Control Circuits for Water treatment.
- Calibration for Water Treatment for Pneumatic Control V/Pneumatic On/Off v/v & motorized v/v, Transmitter (Flow, Level, Pressure, Temp, and Vibration, Speed, Thermocouples, RTD Devices), Switches, and Indicators, Control valve (Auma, fisher and Bialy), Motorized valves (Limit torque), Analyzer transmitter conductivity, PH, ORP, silica, Sodium, Dissolved Oxygen, Dosing Pumps (Milton Roy).
- Diagnostic problem in PLC include (on line). This work includes Upload, down load program from PLC and to PLC.
- Distributed control system (DCS) [installation; power supplies; data highway; Ethernet; I/O cards Checking and troubleshooting from the filed up to the WDPF SYSTEM.
- Trouble shooting & Maintenance all equipment for WDPF system (DCS).
- All boiler filed instruments test, calibration, loop checks & maintenance.
- Working on EMPAC program (asset software) for work orders and spare parts.

Dates : From Jul. 2013 till Dec. 2014

Employer : Yanbu Cement Company – KSA

Job title : I&C Engineer

Job Description :

- Operating on kiln (3 x 1500 Ton/Day), Raw mill (2 x 80 Ton/Hour) cement mill (3 x 80 Ton/Hour).
- Water desalination plant (2 x 2500 ton/day TCD + 3000 ton/day RO process).
- Control: PLC Siemens (programming, installing and maintenance) & DCS ABB bialy info 90.
- Instrumentation: pressure, temperature, flow rate, weigh feeder, level, vibration, speed, current, voltage and power measurement (calibration, installing and maintenance).
- Power:
 - Variable Speed Drives (AC & DC), ABB, Siemens and Ansaldo.
 - Motor control centre MCCs, power and control circuits.
 - Induction motors squirrel cage and slip ring.
 - Low and medium voltages up to 6.3KV rated, fractional KW power up to 3MW and DC motors up to 600 KW.
 - Transformer (testing and maintenance).

Dates : From Feb. 2008 till Nov. 2010

Employer : National Cement Company – El-Tebbin, Helwan

Job title : I&C Engineer

Job Description :

- Operating on kiln (2 x 4500 Ton/Day), Raw mill (3 x 250 Ton/Hour) cement mill (4 x 180 Ton/Hour).
- Control: PLC Allen Bradley and Siemens (programming, installing and maintenance).
- Instrumentation: pressure, temperature, flow rate, weigh feeder, level, vibration, speed, current, voltage and power measurement (calibration, installing and maintenance).
- Power:

- Variable Speed Drives (AC & DC), ABB, Siemens and Ansaldo.
- Motor control centre MCCs, power and control circuits.
- Induction motors squirrel cage and slip ring.
- Low and medium voltages up to 6.3KV rated, fractional KW.
- Power up to 3 MW and DC motors up to 600 KW.
- Transformer (testing and maintenance).

Dates : From Oct. 2006 till Feb. 2008
Employer : Thebes Higher Institute for Engineering
Job title : Instructor
Job Description : Teaching courses in electronics & communication engineering department including the following courses: Electronics, computer, waves, Measurement, circuits, DSP, microprocessors, interfacing and physics.