Mohamed Yehia Mohamed Awad Farrag.

Instrument & Control Engineer.

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Objective

A position in which I can utilize my qualifications, experiences and capabilities.

Highlights

- B.Sc. Communications and Electronics Engineering.

- Eight years of experience in electrical power generation field (CCGT and OCGT).

- Worked as instrument and control engineer for Alghanim International General Trading & Contracting KSC Company in Kuwait.

- Worked as instrument and control engineer for kharafinational KSC Company in Kuwait.
- Worked as instrument and control engineer at Sabiya open cycle power plant_2 project 2*250MW, main contractor Alghanim international company and Siemens.

- Worked as instrument and control engineer at Al-ZOUR south combined cycle power plant project 8*125MW+2*250MW, main contractor Siemens, CMI and Alghanim.
- Worked as instrument and control engineer at Sabiya combined cycle power plant project 6*250MW+3*250MW, main contractor GE and HHI. (4 Years).
- Worked as instrument and control engineer at Al-ZOUR south open cycle power plant project 2*250MW, main contractor Alghanim international company and Siemens (2 Years).
- Worked as instrument and control engineer at Sabiya open cycle power plant project 2*250MW, main contractor Alghanim international company and Siemens (1 Years).
- Involved in most erection and commission work in the plant (GT, ST,HRSG and BOP).
- Experience in GE DCS (markvi e) and toolboxst software .
- Experience in Siemens gas turbine control system SPAA – T3000.
- Experience in ABB DCS 800xA.
- Experience in instruments calibration (pressure transmitters, pressure gauges, pressure switches, differential pressure switches, temperature transmitters, temperature gauges, temperature switches and level switches).
- Experience in BMS system, System installation and commissioning, vendor

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NARA Control Company (South Korea).

- Experience in BMS system, System installation and commissioning, Controller based on Rockwell PLC.
- Experience in Fire Fighting and Fire alarm system, System installation and commissioning, vendor Tyco Company.
- Experience in Fire Fighting and Fire alarm system, System installation and commissioning, vendor Minimax Company.
- Experience in CCTV system, installation and commissioning, Vendor is KDA Company (South Korea).
- Experience in PLC programming using Ladder diagram.
- Experience in microcontroller programming using assembly and C language.
- Experience in LAN, WLAN and WAN networks configuration, verify and troubleshooting.

Education

2008   B.Sc. Communications and Electronics Engineering good grade and excellent grade in the final project (Electrical devices remote control using infrared circuit and microcontroller)

Work Experience

Sep '2016 – Now (Sabiya open Cycle Power Plant-2 (Sabiya, Kuwait)) 2X250MW (Alghanim , Siemens) Contractors.

Position: Senior instrument and control project engineer.

My responsibilities in this position include the following:

- Responsible of all EPC activity of BMS system in power plant.
- Responsible of calibration of all instruments (pressure and temperature transmitters _ Siemens) , (pressure and differenial pressure switches _ Cella) and (pressure and temperature gauges _ wika).
- Responsible of installing all instrument on water line according to approved hook-up and P&ID drawings.
- Responsible of installing all instrument on air duct of AHUs unit such as temperature sensors , humidity sensors , flow switch , differenial pressure switches and wall mounted room temperature sensors.
- Responsible of cable pulling , cable laying and cable termination of all instruments.
- Responsible of all commissioning activity of BMS system , Cold loop check , Hot loop Check and function test.
- Get involved in BMS programming (PLC allenbradly) using RS logix 5000.
- Responsible of closing all punch points related to BMS system with the client.

Jun '2014 – Aug '2016 (Al-Zour South Open Cycle Power Plant (Al-Zour, Kuwait))
2X250MW (Alghanim , Siemens) Contractors.

Position: Senior instrument and control project engineer.

My responsibilities in this position include the following:

- Inspect and check the received materials from the vendor and manufacturer at the site and to be as per specifications.
- Follow all construction and installation work of instruments according to P&ID, HOOK-UP and wiring drawing.
- Get involved in instrument calibration in the site (pressure transmitters, switches and gauges) (temperature transmitters, gauges and switches) and (level switches) vendor Rosemount, Hitrol, Wise and Cella.
- Inspect instruments erection in Gas turbine area (Siemens scope) MBA, MBV, MBN, MBQ, MBL…. etc and all Siemens skids.
- Inspect instruments erection in BOP area water treatment (veolia), gas oil treatment system (GEA), fuel gas area (Bilfinger) and Gas compressor (Atlas copco).
- Check the installation and erection of Siemens SPAA-T300 turbine control system panel (automation cabinet, ET200 cabinets and server LAN cabinet).
- Follow all construction and commissioning work of fire alarm system TYCO and MINIMAX.
- Follow all construction and commissioning work of CCTV system.
- Follow all construction and commissioning work of HVAC control system (BMS) system.
- Involved in cold loop check, hot loop check and commissioning in different system in the plant (Demi water system, gas condition system, gas oil system, CCW system and gas turbine skids).

Nov '2010 –May'2014 (Sabiya Combined Cycle Power Plant (Sabiya, Kuwait))
3X750 MW (GE , HHI) Contractor.

Position: Senior instrument and control project engineer.

My responsibilities in this position include the following:

- Experience in instrument calibration as I assist most instrument calibration of the plant , pressure transmitters and temperature transmitters (Resmount) , pressure and temperature switchs (ITI and Ashcroft) , pressure and temperature gauges (WISE).
- Familiar with principle of operation of most instruments and valves (MOV valves, Pneumatic valves, hydraulic valves and solenoid valves).
- Assist and inspect instrument installation and wiring termination.
- Ability to understand and check P&ID Drawing, wiring termination drawing and Hook up drawing.
- Inspect cable laying, cable termination, and instruments impulse line (tubing) and instrument air line.
- Assist instrument tube leak test and inspect it.
- Involved in pre-commissioning, commissioning and test function of (gas turbine, steam turbine, HRSG and BOP).
- Involved in DCS installation and erection works (markvie controller, cable termination and panel installing).
- Involved in DCS network configuration (PDH , UDH and ADH).
- Inspect and assist CCTV system erection and installation works (CCTV cameras, DVR, fiber optic / UTP switches and video server converter).
- Inspect and assist CCTV system configuration (network configuration and interlock between CCTV system and Fire alarm system).
- Inspect and assist Fire fighting and Fire alarm system erection works configuration and testing.
- Inspect and assist HVAC (Heat Ventilation and Air conditioning system) erection works and testing.

**July–Nov'2010 (Al-Zour South Combined Cycle Power Plant (Al-Zour, Kuwait))
2X500MW (Alghanim , Siemens) Contractor.**

Position: Senior instrument and control engineer.

My responsibilities in this position include the following:

- Worked as I&C inspector, closed handover punch list items related to installation, erection and configuration works.

April–July '2010 (kharafinational KSC Company (Kuwait)

Position: Senior instrument and control engineer.

My responsibilities in this position include the following:

- Joined Kharafinational KSC Company and positioned as instrument and control engineer.
- Worked in MEW (Ministry of Electricity and Water) head office.

April – December '2009 (IT GATE Company, (Port Said, Egypt))

Position: Network Engineer

My responsibilities in this position include the following:

- Explain how communication works in data networks and the internet.
- Recognize the devices and services that are used to support communications across an internetwork.
- Explain the role of protocols in data networks (application, transport, network, data access and physical layer).
- Design, calculate and apply subnet mask.
- Use Cisco CLI command to perform router and switch configuration.
- Use SDM to perform router and switch configuration.
- Configure, verify and troubleshoot router interfaces.
- Configure, verify and troubleshoot static routes.
- Configure, verify and troubleshoot distance vector routing protocols (RIP v1, RIP v2).

- Design and implement classless IP addressing scheme for given network.
- Configure, verify and troubleshoot EIGRP (Enhanced Gateway Routing Protocol).

- Configure, verify and troubleshoot link state routing protocol (OSPF).
- Configure, verify and troubleshoot VLANs, trunking on Cisco switches, interVLAN routing, VTP and RSTP.
- Identify, prescribe and resolve common switched network media issue, configuration issue, auto negotiation, and switch hardware failures.
- Identify and describe the purpose of the components in a small wireless network such as service set identifier (SSID), basic service set (BSS), and extended service set (ESS).
- Configure and verify basic WAN serial connections including serial, Point-to-point and frame relay.
- Describe, configure, apply, monitor and troubleshoot Access Control List based on network; requirements.
- Describe the importance, benefits, role, impact, and components of VPN technology.
- Explain, configure, verify, and troubleshoot IP addressing services including Network Address Translation (NAT), DHCP and DNS.

Training

Aug '06 - Summer training course in Canal Company of Electricity Distribution.

July' 07 - PLC advanced course in JELECOM A.D.Panasonic.

July' 07 - GSM and mobile maintenance advanced course in JELECOM A.D.Panasonic,

April '09 - Network training course in CISCO network academy (IT GATE Company)

May' 13 - HVAC control system training, NARA control Company.

Certificates
- PLC advanced course Certificate from JELECOM A.D.Panasonic.
- GSM and Mobile maintenance Certificate from JELECOM A.D.Panasonic.
- CCIT Essential one: PC hardware and software.
- CCIT Essential two: Network operation system.
- CCNA Exploration: Network Fundamentals.
- CCNA Exploration: Routing Protocols and Concepts.
- CCNA Exploration: LAN switching and Wireless.
- CCNA Exploration: Accessing the WAN.
- CCNA 640-802 certificate, Cisco ID (CSCO11683911).
- CCNP Switching 642-813.

Other Experiences

- Microcontroller programming Microchip (Pic).
- Good experiences in control circuits simulation and design using the following programs (Automation studio and Rs Logix pro).
- Good experiences in electronics and electrical circuits simulation and design using the following programs (Proteus, Multisim, MATLAB and ORCAD).
- Good experiences in Network simulation and design using the following programs (Packet Tracer, GNS3 and VMware).
- Good experiences in Programming languages C and assembly.
- Good experiences in Microsoft Windows MS Office.
- Five years of experiencing in the training field, as I worked as an instructor for the following subject, Electrical circuit, electronic circuit, digital circuit, classic control, PLC and Microcontroller.

Personal Information

- Date of birth   28th august 1985
- Gender   Male
- Permanent address   El dakahlya, Egypt.
- Present address   El dakahlya, Egypt.
- Religion   Muslim
- Nationality   Egyptian
- Marital state   Married
- Military state   Exempted
- Language   Arabic, English

References are available upon request.