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I&C Construction, Commissioning & Maintenance Lead Engineer

Holds a B. Sc. in Industrial Electronics & Automatic Control Engineering and has about 22 years' experience in Power Plants (I&C construction, maintenance, commissioning).

PERSONAL DATA

Nationality : Egyptian
Birth Date : 03/09/1977
Gender : Male
Marital Status : Married
Residence : Gharbia

EDUCATION

: B. Sc. in Industrial Electronics & Automatic Control Engineering, Menoufia University, 2001

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : On-shore training of Combined Cycle (Gas turbine, HRSG and steam turbine) by simulator system, Nubaria.
- : On-shore training of gas turbine Siemens v94.3A each one produces 250MW, Nubaria.
- : On-shore training of steam turbine operation and maintenance by Mitsubishi Heavy Industries Company, Nubaria.
- : On-shore training of ALSTOM HRSG, Nubaria.
- : On-shore training of high and medium voltage (500KV / 220KV / 6.3KV), Nubaria.
- : Operation on-shore training of Alspa p320 distributed control system (DCS) by ALSTOM Company, Nubaria.
- : Off-shore training of CENTUM CS3000 distributed control system (DCS) by YOKOGAWA Company, Manama – Bahrain: Installing DCS software, System backup and Restoration for DCS Stations and Addition or modification of I/O points, logic diagrams and graphic displays.

- : GE Energy Co. Training in Gas Turbine in the following: Mechanical System, 9FA Gas turbine - Generator maintenance, Mark VI Controls, Electrical System, GE Generator Controls Course.
- : Alstom, INITEC Energia Co. Training in Steam Turbine in the following: Maintenance of Alstom CM Condenser, Operation & Maintenance of Debris Filter (DF) and, Condenser on Load Tube Cleaning System (COLTCS), Condenser Exhauster Vacuum pumps units, Water box Priming units, Maintenance personal.
- : Middle Delta Electricity Production Co.: Turbines maintenance, Operation of Combined Cycle.
- : Egyptian Electricity Holding Company & ATEC: Valves (Basics, Advanced & Specialist).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2007 till now
- Employer** : Middle Delta Electricity Power Production Company (MDEPC)
- Project** : Nubaria Combined Cycle Power Station (1x750MW), Module III
- Job title** : I&C Construction, Commissioning & Maintenance Lead Engineer
- Job Description** : For Alstom steam turbine alspa p320 TGC-S V2+:
- Commissioning and start-up for ALSTOM steam turbine generator alspa p320 TGC-S V2+.
 - Following up (calibration, cold loop check, hot loop check).
 - Supervise the installation of junction boxes and the connection between them and control panel (CLC, and OLC).
 - PLC step 5 & step7 Siemens programming and troubleshooting.
 - Working as I&C owner representative during the commissioning and Start-up of Alstom ST, GE gas turbine, HRSG and DCS.
 - Read the logic and tracing the signals using controcad.
 - Supervise the installation and maintenance of STG and auxiliaries (Lube Oil Skid, Gland Steam Condenser, Vacuum Condenser Pumps and Debris Filter).
 - Performing the required maintenance programs of steam turbine including daily, weekly, monthly, semi-annually and annually maintenance.
 - Responsible of warranty claims in between the owner and STG party.
 - Receiving spare parts of STG steam turbine.
 - Maintenance Engineer after TOAC in Alstom steam turbine.
 - Very good experience in maintenance (ATLAS COPCO) compressors and its dryers' model (CD100 & CD80).
 - Fault analysis using controcad display facilities.
 - Vibration monitoring system (Bentley Nevada).
 - Read the logic and tracing the signals using CONTROCAD stations.
 - Attend the steam turbine upgrade in the controller.
 - Make troubleshooting for Demineralization water system, debris filter, tube cleaning and condensate pumps.
- Employer** : AC BOILERS (formerly Ansaldo Caldaie)
- Project** : Cairo West Supercritical Power Plant (1x650MW):
- One Supercritical Boilers gas & oil fired supplied by (AC BOILERS).

- One steam turbine 1x650MW (HP, IP, LP stages) supplied by (DOSSAN).
 - Distributed control system (DCS) supplied by (Honeywell).
 - Burner Management system (BMS) supplied by (ABB).
 - Auxiliaries (service, closed cooling, boiler feed water turbine pump, Circulation systems, Hydrogen and Oxygen Gas Production Plant), etc.
 - Water treatment system.
- Job title** : I&C Construction, Commissioning & Maintenance Lead Engineer
- Employer** : AC BOILERS (formerly Ansaldo Caldaie)
- Project** : Assiut Supercritical Power Plant (1x650MW):
- One Supercritical Boilers gas & oil fired supplied by (AC BOILERS).
 - One steam turbine 1x650MW (HP, IP, LP stages) supplied by (DOSSAN).
 - Distributed control system (DCS) supplied by (YOKOGAWA).
 - Burner Management system (BMS) supplied by (ABB).
 - Dry Electrostatic Separator (DESP) supplied by (AC BOILERS).
 - Auxiliaries (service, closed cooling, boiler feed water turbine pump, Circulation systems, Hydrogen and Oxygen Gas Production Plant), etc.
 - Water treatment system.
- Job title** : I&C Construction, Commissioning & Maintenance Lead Engineer
- Dates** : From 2018 till 2019
- Employer** : AC BOILERS (formerly Ansaldo Caldaie)
- Project** : South Helwan Supercritical Power Plant (3x650MW):
- THREE Supercritical (Benson) BOILERS 3x650MW GAS & OIL FIRED supplied by (AC BOILERS).
 - THREE steam turbines 3x650MW (HP, IP, LP stages) supplied by (MITSUBISHI).
 - Distributed control system supplied by (SCHNEIDER ELECTRIC).
 - Auxiliaries (service, closed cooling, Circulation systems, Hydrogen and Oxygen Gas Production Plant, etc.
 - Water treatment system.
- Job title** : I&C Construction, Commissioning & Maintenance Lead Engineer
- Job Description** :
- Working as DCS Coordinator Engineer (Schneider, Foxboro, Invensys).
 - Make modification in the logic, change parameter as it need, make forcing signals, I/O reports, hardware signals tracing, replacing I/O and controller cards, saving, log reports, alarm list, constant list, finder.
 - Working as Instrument & Control Engineer.
 - Performing (calibration, cold loop check, hot loop check, commissioning, start-up, Function test and tuning activities) on several kind of Switches (Pressure, flow, level, proximity and DP), Smart Transmitters, Steam and Water Sampling Analyzers, CEMS Analyzers, Vibration sensors, hazard gas sensors, Fire Fighting and detection system, Motorized Valve Actuators, Pneumatic Valve Actuators and Hydraulic "servo" Valve Actuators.
 - Performing of all field instruments installation, calibration and testing.

Dates : 2018
Employer : ORASCOM CONSTRUCTION
Project : New West Damietta Combined Cycle Add-on Power Plant:

- Four Gas turbines 4x125MW supplied by (GE).
- Four Horizontal HRSG supplied by (GE).
- ONE steam turbine 1x250MW (HP, LP stages) supplied by (GE).
- Distributed control system supplied by (GE).
- Auxiliaries (service, closed cooling, ACC systems, Hydrogen and Oxygen Gas Production Plant, etc.
- Water treatment system.

Job title : I&C Construction, Commissioning & Maintenance Lead Engineer
Job Description :

- Working as DCS Engineer on Mark VIe (gas turbine, and steam turbine GE).
- Make modification in the logic, change parameter as it need at tool box option, I/O reports, hard ware signals tracing, replacing I/O cards, UCVX controller card, go ON/OFF line major/minor, equal difference, saving, log reports, alarm list, constant list, finder, forcing signals, changing control constants, alarm tracing.
- Working as Instrument & Control Engineer.
- Performing (calibration, cold loop check, hot loop check, commissioning, start-up, Function test and tuning activities).
- Performing of all field instruments installation, calibration and testing.

Dates : From 2016 till 2017
Employer : AC BOILERS (formerly Ansaldo Caldaie)
Project : EL-SHABAB Combined Cycle Power Station (1500MW):

- 8 Gas turbines 8x125MW supplied by (GE).
- 8 Horizontal HRSG supplied by (ANSALDO CALDAIE).
- 2 steam turbines 2x250MW (HP, LP stages) supplied by (ANSALDO ENERGIA).
- Distributed control system supplied by (SCHNEIDER ELECTRIC).
- Auxiliaries (service, closed cooling, circulating systems, Hydrogen and Oxygen Gas Production Plant, etc.
- Water treatment system.

Job title : I&C Construction, Commissioning & Maintenance Lead Engineer
Job Description :

- Working as Instrument & Control Engineer.
- Performing (calibration, cold loop check, hot loop check, commissioning, start-up, Function test and tuning activities) on several kind of Switches (Pressure, flow, level, proximity and DP), Smart Transmitters, Steam and Water Sampling Analyzers, CEMS Analyzers, Vibration sensors, hazard gas sensors, Fire Fighting and detection system, Motorized Valve Actuators, Pneumatic Valve Actuators and Hydraulic "servo" Valve Actuators.
- Performing of all field instruments installation, calibration and testing.

Dates : From 2015 till 2016
Employer : [EGYPTROL](http://www.egyptrol.com), GE Energy Subcontractor
Project : Emergency Power Plants Project (20x25MW), Egypt, Cairo East Site (Two Gas Turbines 2x25MW frame TM2500 (GE))

Job title : I&C Commissioning & Maintenance Engineer
Job Description :

- Dealing with DCS System – Wood Word / Micronet, Logic / GAP.
- Preparation for operation of the units (check alarms and be sure that there is permissive for both units to start and all condition is achieved to start both units, survey for all auxiliary equipments (pumps, valves, filters, transmitters, etc.) for both units, check the level for (fuel tanks and other auxiliary tanks), check firefighting system is ready.
- Check the voltage and frequency of the grid and verify that it is suitable and in the safe range to start both units, if it is not in the proper range, I coordinate with transformers station to get right voltage for safe operation.
- Change all types of filters (low and high pressure for fuel, air inlet filters, etc.).
- Take a sample every day from the fuel to insure it is pure as can as possible.
- Operate a unit called centrifugal unit used to purify the fuel.
- Follow the right instruction to start both units to keep safe operation.
- Supervise all values (temperatures, pressures, levels and many other important values) during operation from a HMI screen.
- Follow proper steps for normal shutdown and avoid emergency shutdown.
- Register a data sheet contain all values (MW, MW/H, run time hour, start and end time of operation, fuel consumption, etc.).
- Verify and execute all safety requirements needed for work precisely.

Date : From Jun. 2015 till Aug. 2015
Employer : [EGYPTROL](#), GE Energy Subcontractor
Project : Mallawi – GE TM 2500

Job title : Operator Engineer
Job Description :

- Preparation the unit for operation (mechanical & electrical).
- Start-up from stand still till base load and monitoring it.
- Shut down till stand still.
- Off line compressor water wash.
- Change low pressure liquid fuel filter.
- Change high pressure liquid fuel filter.
- Clean the chip detectors.
- Increase the turbine lube oil or change it.

Dates : 2014
Employer : AC BOILERS (formerly Ansaldo Caldaie)
Project : BANHA Combined Cycle (1x750MW) Power Station:

- Two Gas turbines 2x250MW frame MS9001FA supplied by (GE).
- Two Horizontal HRSG supplied by (AC boilers).
- One steam turbine 250MW (HP, IP, LP stages) supplied by (ANSALDO).
- Distributed control system supplied by (YOKOGAWA).
- Auxiliaries (service, closed cooling, circulating systems, Hydrogen and Oxygen Gas Production Plant, etc.
- Water treatment system.

Job title : I&C Commissioning & Maintenance Lead Engineer

Dates : From 2009 till 2014
Employer : Middle Delta Electricity Power Production Company (MDEPC)
Project : Nubaria Combined Cycle Power Station (2x750MW), Modules I & II
Job title : I&C Commissioning & Maintenance Engineer
Job Description :

- Working as Owner Representative during the commissioning and start-up of GE gas turbine, HRSG and DCS.
- Review all drawings & technical submittals.
- Review all systems integrity and fitness according to Contract requirement and standards.
- Performing (calibration, cold loop check, hot loop check, commissioning, start-up, Function test and tuning activities) on all field instruments.
- Performing of all field instruments installation, calibration and testing.
- Commissioning & starting up for ALSTOM steam turbine generator alspa P320.
- Commissioning & Starting up of STG and auxiliaries (lube oil skid, gland steam, condenser, vacuum condenser pumps and debris filter).
- Working as I&C Engineer during the combustion inspection (CI), Warranty inspection and Major inspection of two GE gas turbines GE9FA.
- Maintenance and calibration of Gas hydraulic Servo valves (Woodward valves), liquid fuel servo valves (MOOG) and IGV servo valve tuning and adjusting of Pneumatic control valves and on-off valves. Vibration probes, proximity transducers and Seismic Sensors, Speed sensors, DC LVDT.
- Testing and installing of all turbine supervisory instruments (TSI).

Dates : From 2007 till 2009
Employer : Middle Delta Electricity Power Production Company (MDEPC)
Project : Nubaria Combined Cycle Power Station (2x750MW), Modules I & II
Job title : I&C Maintenance Engineer
Job Description :

- Working as Owner Representative during the commissioning and start-up of GE gas turbine, HRSG and DCS.
- Review all drawings & technical submittals.
- Review all systems integrity and fitness according to Contract.
- Working as DCS Engineer on T3000 (gas turbine Siemens).
- Make modification in the logic, change parameter as it need, make forcing signals, I/O reports hard ware signals tracing, replacing I/O and controller cards, saving.
- Commissioning & Starting up CTG and auxiliaries.
- Good experience in the Field of instrumentation & control related to the field of procurement, installation, construction supervision, calibration, maintenance, pre-commissioning, commissioning and start-up in the power stations.
- Responsible for follow the constructions and (walk down, loop check, site acceptance tests, commissioning, receiving material and open points).
- Good knowledge and working experience on different control system such as ALSTOM DCS, PLC Maintenance, configuration, tuning and troubleshooting (SIAMTIC-S7, Allen Bradley, Schneider), SCADA & DCS, Firefighting and detection system, Gas detection system.

Dates : From 2004 till 2006
Employer : Oriental Weavers International for carpets
Job title : I&C Maintenance Engineer

Dates : From 2001 till 2003
Employer : Delta Nile for Engineering & Projects
Job title : I&C Maintenance Engineer

Field of experience :

- Working as DCS Specialist Engineer (Mark VIe, YOKOGAWA, ABB, Honeywell), Foxboro, alspa P320, T3000: Make modification in the logic, change parameter as it need, make forcing signals, I/O reports, hard ware signals tracing, replacing I/O and controller cards, saving, log reports, alarm list, constant list, finder.
- Working as Instrument & Control Engineer: Performing (calibration, cold loop check, hot loop check, commissioning, start-up, Function test and tuning activities) on several kind of Switches (Pressure, flow, level, proximity and DP), Smart Transmitters, Steam and Water Sampling Analyzers, CEMS Analyzers, Vibration sensors, hazard gas sensors, Fire Fighting and detection system, Motorized Valve Actuators, Pneumatic Valve Actuators and Hydraulic "servo" Valve Actuators. Performing of all field instruments installation, calibration and testing.