

Holds a B. Sc. in Electrical Power & Machines Engineering and a Diploma in Automatic Control. Has over 10 years hands-on experience working in I&C construction, commissioning, start-up and maintenance.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/10/1984
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2006
: High Graduate Studies Diploma ("Automatic Control"), Cairo University, 2009

LANGUAGES

Arabic : Native Language
English : Very Good
French : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : I&C Maintenance Training for ALSTOM Control System (ASLPA P320), ALSTOM, Massy, Paris, France (from Oct. 2008 till Jan. 2009):
 - ALSP P320 Engineer's training.
 - ALSPA P320 communication with External Systems training.
 - ALSPA P320 Administration training.
 - ALSPA P320 CONTROCAD (Engineering station) Training.
 - ALSPA P320 Centralog (Operation station) programming and engineering.
 - ALSPA P320 CONTROBLOC (Hardware Engineering / Troubleshooting).
 - ALSPA P320 Troubleshooting training.
 - ALSPA P320 Advanced Administration training.
 - ALSPA P320 Advanced Design training.
- : On-shore:
 - I&C Maintenance Training for TXP T2000 control system.

- I&C Maintenance Training for ALSPA P320 DCS Control System.
- I&C Maintenance Training for Heat Recovery Steam Generator (CMI).
- I&C Maintenance Training for Water Treatment Plant.
- PLC S7 Control Maintenance/Operating Course.
- HITACHI steam turbine training Course on-site.
- Several other trainings in site in different fields.
- Emerson DCS Ovation 3.0 training course on-site.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Dec. 2014 till now
Project	:	South Helwan Supercritical Power Plant 3x650MW: <ul style="list-style-type: none"> • Three Steam Turbines, 3x650MW (MHPS). • Three Steam Generators (AC Boilers). • DCS (Schneider Electric).
Job title	:	Project Design, Construction, Commissioning and Start-up I&C Lead Engineer
Job Description	:	<ul style="list-style-type: none"> • Review and Modify instrumentation and control design for Power Plant Tender documents for Steam turbines, Boilers, Switchyard, Water Demineralization system, Distributed control system, MV and LV MCCs, Transformers, Pumps, Electrical and Mechanical Installation Works. • Review Electrical, instrumentation and control systems tenderer's technical documentations for Steam turbines, Boilers, Switchyard, Water Demineralization system, Distributed control system, MV and LV MCCs, Transformers, Pumps, Electrical and Mechanical Installation Works. • Review Electrical, instrumentation and control systems Contractor's submittals for Steam turbines, Boilers, Switchyard, Water Demineralization system, Distributed control system, MV and LV MCCs, Transformers, Pumps, Electrical and Mechanical Installation Works. • Supervise Electrical, instrumentation and control systems Contractor's Factory / Site work Progress for Steam turbines, Boilers, Switchyard, Water Demineralization system, Distributed control system, MV and LV MCCs, Transformers, Pumps, Electrical and Mechanical Installation Works. • Witness Factory Acceptance Tests for equipment to be shipped to Site according to contract requirements codes and standards. • Perform Factory Acceptance Test (FAT) for South Helwan Project Substation Automation System (SAS) in the manufacturer (ALSTOM GE GRID) test facility in Montpellier, France. • Perform Factory Acceptance Test (FAT) for South Helwan Project Distributed Control System (DCS) in the manufacturer (Schneider Electric Egypt) test facility in Attaqa FZ, Suez. • Perform Model Validation test (MVT), Software Library test and Unit Master Control (UMC) for South Helwan Distributed Control System (DCS) in the consultant premises (PGESCO) in Cairo. • Perform Factory Acceptance Test (FAT) for South Helwan Project Water treatment, Chlorination and Ploisher control system (SCADA) in the manufacturer (Allen Bradly Egypt) test facility in Cairo. • Perform Installation, Commissioning and startup tests (continuity check, loop check, function check and tuning) for switch yard substation automation system (SAS), water treatment, steam turbine, boiler, and

DCS of South Helwan Power Plant.

- Revise, select and agree with contractors for all South Helwan spare parts lists for different contract packages.
- Supervise, analyze and comment the different contractors schedule and work progress.

Dates : From Oct. 2008 till Dec. 2014

Project : El-Kureimat III Combined Cycle Plant (750MW), Egypt

- Two Gas Turbines, 2x250MW (GE).
- Two Heat Recovery Steam Generators (CMI-INITEC).
- One Steam Turbine, 250MW (ALSTOM GERMANY); controlled via ALSPA P320 (ALSTOM).
- The main CCPP Control System is ALSPA P320 DCS (ALSTOM FRANCE).

Job title : I&C Construction, Commissioning, Start-up & Maintenance Engineer

Job Description :

- The main focus for my job is the control system side. Sharing the responsibility for construction, commissioning, start-up and maintenance for the HRSG's and its BOP with control system ALSPA (P320) and making co-ordination of commissioning activities (loop checks, functional test, and system start-up). Also, I sharing my colleges in electrical equipments commissioning supervising and solving several problems and defects between electrical and I&C.
- Responsible for engineering and design review to all the related I&C documents, drawings, electrical control diagrams and logic circuits and commenting according to the contract specification for HRSG and DCS (HRSG by CMI, Auxiliaries by INITEC and DCS by ALSTOM Alspa P320).
- Making Logic and function check for systems which are controlled from the main DCS ALSTOM Alspa P320 including logic, graphics and database modifications follow up.
- Commissioning all hardwired interface and ModBus communication with the main DCS.
- Follow up all commissioning activities (continuity check, Loop checks, Functional test, transmitters Calibration and System start-up) for all systems controlled by DCS.
- Follow up cable termination of the DCS controller (ALSTOM Alspa P320) and DCS marshalling cabinets and HRSG field cabinets by CMI.
- Inspect and check all the related Motorized Valves (AUMA Valves) and pneumatic valve (control, on off types) to be ready for startup and reliability tests.
- Erection supervising and reporting about the erection Schedule, defects and bending items. Then releasing what executed before preparing Punch list and making punch lists for all the plant.
- Attending the training related to the different systems for I&C maintenance department.

Dates : From Feb. 2007 till Oct. 2008

Project : El-Kureimat II Combined Cycle Plant (750MW), Egypt

- Two Gas Turbines V94.3A2 (SGT5-4000F), 2x250MW (SIEMENS).
- Two Heat Recovery Steam Generators (CMI-SKODA).
- One Steam Turbine, 250MW (HITACHI); controlled via MARK VI (GE).

- Job title** : Construction, Commissioning, Start-up & Maintenance I&C Engineer
- Job Description** :
- One Water Treatment (Demi; Potable) and Waste Water Plant (METITO).
 - The main CCPP Control System is OVATION DCS (EMERSON).
 - The main focus for my job is the control system side. Sharing the responsibility for construction, commissioning, start-up and maintenance for Siemens gas turbines with control system TXP (T2000) and making co-ordination of commissioning activities (loop checks, functional test, and system start-up).
 - Responsible for engineering and design review to all the related I&C documents, drawings, electrical control diagrams and logic circuits and commenting according to the contract specification for HRSG and DCS.
 - Making Logic and function check for systems which are controlled from the main DCS ALSTOM Alspa P320 including logic, graphics and database modifications follow up.
 - Follow up all commissioning activities (continuity check, Loop checks, Functional test, transmitters Calibration and System start-up) for all systems controlled by DCS.
 - Inspect and check all the related Motorized Valves (AUMA Valves) and pneumatic valve (control, on off types) to be ready for startup and reliability tests.
 - Erection supervising and reporting about the erection Schedule, defects and bending items. Then releasing what executed before preparing Punch list and making punch lists for all the plant.
 - Attending the training related to the different systems for I&C maintenance department.
 - Responsible for Maintaining and executing the periodic, preventive, outages maintenance works for Siemens Gas turbines V94.3A2 (SGT5-4000F).
 - Responsible for Maintaining and executing the periodic, preventive, outages maintenance works for Hitachi Steam Turbine.
 - Good experience in Siemens control system (T2000), Engineering System ES680 (ES), Operation and Monitoring System OM650 (PU, SU, XU, OT), and Automation System AS620 (B, T, F). Also, good experience in gas turbine governor, Particularly Siemens turbine governor (Simadyn (AS620T)). Making Backup/Restore process for all system computers.