

102596-ICX-1MOSi-E-2012
I&C Commissioning Engineer – GT Controller

Holds a B. Sc. in Electrical Power Engineering and has over 10 years experience in commissioning, maintenance, operation and control of large gas turbines, including the Siemens SGT5 8000H, SGT5-4000F and 2000E models.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/11/1990
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electrical Power Engineering, Tanta University, 2012

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Simple Cycle Power Plant Operation, MIDELEC, EGYPT (May 2020).
- : GT - I&C Commissioning, SIEMENS Workshop, Germany (Dec. 2019).
- : SPPA-T3000 Engineering II K-T3ADE, SIEMENS Power Academy, Germany (Feb. 2019).
- : SPPA-T3000 Basics Engineering I K-T3BAS_BL, SIEMENS Power Academy, Germany (Feb. 2019).
- : SPPA T-3000 Administration and Commissioning T3ADM1 Training, SIEMENS Power Academy, Germany (Sep. 2019).
- : SPPA- T3000 Simulator Training, MIDELEC, EGYPT (Aug. 2018).
- : Generator / Transformer Protection & Synchronization, SIEMENS Power Academy, Germany (Jan. 2018).
- : Symphony Plus S+ Harmony Engineering Composer, ABB Training Center, Italy (Feb. 2015).
- : Symphony Plus S+ Operation Basic Configuration, ABB Training Center, Italy (Apr. 2015).

- : Symphony Plus S+ Maintenance and Troubleshooting, ABB Training Center, Italy (Apr. 2015).
- : Human Factor Course, Ministry of Civil Aviation, Egypt (Aug. 2014).
- : Basic Avionics, Egypt Air Training Center, Egypt (Jul. 2013).
- : On-job training as Aircraft Maintenance Engineer, Egypt Air, Cairo (Oct. 2012 – Jun. 2013):
 - EGAir Aircrafts "Airbus A320 Family, and Boeing 737".
 - Participated in daily routine work on aircraft systems.
 - Participated in daily diagnostic checks, troubleshooting and maintenance work.
- : PLC Advanced Course, Jelecom Technical Training Center, Egypt (Aug. 2010).
- : Matlab Essential Course, Logic Academy, Egypt (Mar. 2009).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2024 till now
- Employer** : SIEMENS Energy EG, CD Team
- Project** : Karachi, Pakistan - BQPS3 (2X SGT-4000F V9 - 250MW) Major Outage
- Job title** : I&C Commissioning Engineer – GT Controller
- Job Description** :
- Spearheaded major outage operations for BQPS3 (SGT-4000F V9 - 250MW), executing cold and hot commissioning, start-up procedures, and precision gas turbine (GT) tuning.
 - First fuel oil (FO) opera on tuning, achieving optimal GT efficiency.
 - Optimized natural gas (NG) operations post-outage, enhancing the performance and efficiency of the gas turbine systems.
 - Successfully commissioned and operationalized the GT for seamless NG and FO functioning.
 - Expertly commissioned and calibrated NG/FO valves, and meticulously adjusted Inlet Guide Vane (IGV) angles for peak turbine performance.

- Dates** : From Dec. 2023 till Jan. 2024
- Employer** : SIEMENS Energy EG, CD Team
- Project** : Berrouaghia, Algeria - Berrouaghia (2X SGT5-4000F - 250MW) Major Outage
- Job title** : I&C Commissioning Engineer – GT Controller
- Job Description** :
- Spearheaded major outage at Berrouaghia (2X SGT5-4000F - 250MW), executing cold and hot commissioning, start-up procedures, and precision GT tuning.
 - Successfully completed commissioning and operational changeovers for dual-fuel turbine systems, seamlessly switching between Natural Gas (NG) and Fuel Oil (FO).
 - Expertly commissioned and calibrated NG/FO valves, ensuring optimal fuel flow and efficiency.
 - Precisely adjusted Inlet Guide Vane (IGV) angles to enhance turbine performance and reliability.
 - Conducted comprehensive testing and commissioning of all GT systems, adhering strictly to established protocols.

Dates : From Nov. 2023 till Dec. 2023
Employer : SIEMENS Energy EG, CD Team
Project : Punjab, Pakistan - Punjab (2 X SGT5-8000H - 400MW)
Job title : I&C Commissioning Engineer – GT Controller
Job Description :

- Carried out hot commissioning, start-up, and GT tuning.
- Achieved commissioning, operation, and fuel changeovers of both turbines in both NG and FO.
- Commissioned and stroked NG/FO valves.

Dates : From Oct. 2023 till Nov. 2023
Employer : SIEMENS Energy EG, CD Team
Project : Sohar, Oman - Sohar2 (SGT5-4000F - 250MW) Major Outage
Job title : I&C Commissioning Engineer – GT Controller
Job Description :

- Carried out cold commissioning, hot commissioning, start-up, and GT tuning.
- Achieved commissioning, operation, and fuel changeovers of the turbine in both NG and FO.
- Commissioned and stroked NG/FO valves and adjusted IGV angles.
- Completed testing and commissioning of all GT systems according to the protocols.

Dates : From Sep. 2023 till Oct. 2023
Employer : SIEMENS Energy EG, CD Team
Project : Alexandria, Egypt - MidElec: Communication between Siemens SPPA-T3000 and GE SFC SEMIPOL D4
Job title : T3K Administrator
Job Description :

- Implemented the Profibus drawing and connected the Profibus loop.
- Configured and established the Profibus communication between Siemens SPPA-T3000 and GE SFC SEMIPOL D4.
- Signal inspection and exchange with GE commissioning engineer.

Dates : From Sep. 2023 till Oct. 2023
Employer : SIEMENS Energy EG, CD Team
Project : Nubaria - Kureimat (SGT5-4000F - 250MW) EHGPI Outage, Egypt
Job title : I&C Commissioning Engineer – GT Controller
Job Description :

- Carried out cold commissioning, hot commissioning, start-up, and GT tuning.
- Commissioned and stroked NG/FO valves and adjusted IGV angles.
- Completed testing and commissioning of all GT systems according to the protocols.

Dates : From Aug. 2023 till Sep. 2023
Employer : SIEMENS Energy EG, CD Team
Project : Jazan Power Plant - Saudi Arabia
Job title : T3K System Administrator

Job Description :

- Spearheaded Block5 Network implementation and configuration at Jazan Power Plant, aligning with LAN architecture.
- Executed backup and restoration of thin clients utilizing SPPA- T3K Backup Tool.
- Expertly addressed and resolved daily system administration challenges, ensuring seamless operations.

Dates : From Oct. 2022 till Jun. 2023

Employer : SIEMENS Energy EG, CD Team

Project : Dubai, UAE - DEWA JA M-Station, JAMEX, and Emirates Global Aluminum "DUBAL EGA" - Commissioning (SGT5-4000F- 300MW & SGT5-8000H-450MW) after major outages

Job title : I&C Commissioning Engineer – GT Controller

Job Description :

- Completed cold commissioning, start-up, hot commissioning, and GT tuning.
- Achieved commissioning, operation, and fuel changeovers of the turbine in both NG and FO.
- Commissioned and stroked NG/FO valves and adjusted IGV/VGVs angles.
- Accomplished testing and commissioning of all GT systems, including the HCO, lube oil, and ELOP batteries check according to the protocols.
- Implemented many FRRs "Field Revision Requests".

Dates : From Sep. 2022 till Oct. 2022

Employer : SIEMENS Energy EG, FS Team

Project : Alexandria, Egypt - MIDELEC Power Station - DCS upgrade from SPPA T2000 "TXP" to SPPA T3000

Job title : I&C Commissioning Engineer – GT Controller

Job Description :

- Installed the automation servers, commissioned the servers, created the run-me containers, and loaded the project to the CPU.
- Carried out cold commissioning, start-up, hot commissioning, and GT tuning.
- Installed and rewired all IO's cabinets, and conducted the loop checks and function tests.
- Commissioned and stroked NG/FO valves and adjusted IGV/VGVs angles.

Dates : From Jul. 2022 till Sep. 2022

Employer : SIEMENS Energy EG, FS Team

Project : Karachi, Pakistan - Bin Qasim Power Station BQPS3 Pakistan - Erection SGT5-4000F - 300MW

Job title : I&C Commissioning Engineer

Job Description :

- Commissioned the I&C components like automation processors, sensors and drives, and DCS logic diagrams
- Commissioned the I&C related GT systems.
- Ensured that commissioning procedures are followed, and proper documentation is maintained.
- Identified and resolved conflicts between installed and as-designed conditions.

Dates : From Aug. 2021 till Nov. 2021
Employer : SIEMENS Energy EG, FS Team
Project : Malaysia - SIEMENS MALAYSIA - Delegation
Job title : T3000 System Administrator
Job Description :

- Installed online and offline software patch for T3K Rel. 7.2 SP1 for Pengrang power plant u10winsrv01 & 02 via ExHost.
- Updated the firmware of the CPU & Scalances & UPS and CS3000 for Pengrang power plant U10.
- Designed the LAN drawing and the SLD architecture for upgrading Seraya power plant from Rel. 4.2 to 8.2 SP3.

Dates : From Jul. 2019 till Oct. 2022
Employer : SIEMENS Energy EG, FS Team
Projects : Egypt MEGA Projects "New Capital - Beni Suef - Burullus" (24 X SGT5-8000H - 400MW) CI Outage + IGV-VGVs Mitigation + EHGPI / NubTalkur "Nubaria - New Talkha - Kureimat" (8 X SGT5-4000F - 250MW) EHGPI Outage and LTE Outages
Job title : I&C Commissioning Engineer – GT Controller
Job Description :

- Carried out cold commissioning, start-up, hot commissioning, and GT tuning
- Commissioned and stroked NG/FO valves and adjusted IGV/VGVs angles.
- Completed testing and commissioning of all GT systems, including the HCO, lube oil, and ELOP batteries check according to the protocols.
- Configured the thin clients, and carried out all specific aspects of network administration.
- Carried out logic modification and engineering: created (function diagrams, plant display, macros, HW- Proxies, ...etc.).

Dates : From Jul. 2016 till Jul. 2019
Employer : SIEMENS EG, O&M Team
Project : Alexandria, Egypt - MIDELEC Power Station (V64.3- 61MW)
Job title : I&C Maintenance Engineer
Job Description :

- Provided support to the field service team during the upgrade from SPPA TXP to SPPA T3000, which included replacing old cabinets with new ones, rewiring, loop checks, cold and hot commissioning, as well as GT start-up.
- Dismantled, calibrated, and reinstalled the field instruments during many major outages.
- Carried out preventive and corrective maintenance.
- Conducted daily diagnostic checks, troubleshoot, and maintained the daily alarms and faults.
- Planned maintenance for preventive and corrective work orders using BFS opera on and maintenance program used in power plant management.

Dates : From Jul. 2015 till Jul. 2016
Employer : ELSEWEDY ELECTRIC
Project : EI-Mahmoudia Power Plant 330MW Simple Cycle
Job title : ABB DCS Commissioning Engineer
Job Description :

- Carried out site testing and commissioning according to the procedures.
- Installed and commissioned ABB Symphony Plus DCS system.
- Performed DCS logic modifications using ABB S+ engineering software.
- Performed DCS HMI modifications using ABB S+ operation software.

Dates : From Jun. 2014 till Jun. 2015
Employer : ELSEWEDY ELECTRIC
Project : New Attaqa Simple Cycle Power Plant, Suez
Job title : SPPA T3K DCS Commissioning Engineer
Job Description :

- Installed and rewired all IO's cabinets, and conducted the loop checks and function tests.
- Carried out the loop checks and function tests via SPPA T3K.
- Verified installed and as-designed documents like P&ID, cable scheduling, logic, instruments Hook-up, etc.
- Created the I/O list, the cable list, and the FCD "Function Code Diagram".

Dates : From Jun. 2013 till Jun. 2014
Employer : ELSEWEDY ELECTRIC
Project : DIWANEYA 500MW GAS TURBINE POWER PLANT (4x125MW Frame 9E), Iraq
Job title : Instrumentation Engineer
Job Description :

- Created the hook-up drawings.
- Selection of appropriate instrumentation based on contract details and site conditions.
- Created the datasheet for the site instruments.

Field of experience :

- My proficiency extends to adeptly handling T3K administrative responsibilities, which encompass upgrading firmware, installing necessary patches, and executing LAN drawings with precision.
- I am well-versed in working with advanced DCS and turbine control systems, such as Siemens Omnivise T3K and SPPA-T3K for both engineering and maintenance tasks, as well as the ABB Symphony Plus+ system.
- My skill set also includes a strong background in maintaining and calibrating field instruments, ensuring optimal performance and reliability.