

Holds a B. Sc. in Electrical & Control Engineering and has about 23 years hands-on experience, including 16 years working in I&C field.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 16/02/1974  
Gender : Male  
Marital Status : Married  
Residence : Damietta

## **EDUCATION**

: B. Sc. in Electrical & Control Engineering, Suez Canal University, 1997

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: PLC programming and modifying ladder & signal diagram control & networks  
: Amplissima program for work order and scheduling  
: Ovation operating system for Emerson

## **TRAINING COURSES AND CERTIFICATIONS**

: SPPA – T3000 System Basic and Advanced Engineering (S: T3BASADE) in Siemens Training Center in Erlangen – Germany (May 2011).  
: SPPA – T3000 Maintenance (SIM) (S: T3MAIN) in Siemens Training Center in Erlangen – Germany (May 2011).  
: SPPA – T3000 / SPPA – T2000 Simulators for Siemens combined cycle power plants (T3k/TXP-SCCP-5D-E) in Siemens Training Center in Erlangen – Germany (May 2011).  
: Operating & Maintaining SIEMENS GAS TURBINES (3 months at DAMIETTA COMBINED CYCLE POWER PLANT).  
: Operating & Maintaining STEAM POWER PLANT (3 weeks at DAMIETTA COMBINED CYCLE POWER PLANT).  
: ELECTRONIC DEVICES (3 weeks at DAMIETTA COMBINED CYCLE POWER PLANT).

: INDUSTRIAL SAFETY (2 weeks at DAMIETTA COMBINED CYCLE POWER PLANT).

## CHRONOLOGICAL EXPERIENCE RECORD

**Project** : Damietta Power Plant  
**Job title** : I&C General Manager

**Dates** : From Apr. 2006

**Project** : Damietta Combined Cycle Power Plant

**Job title** : I&C Maintenance Engineer

**Job Description** :

- Software modification of TELEPERM ME programs.
- AS220EHF – AS220E – AS231 – OS 250PC-STRUCK AS220EA.
- Troubleshooting of gas turbine instrument & control system.
- Analysis of problems and faults and making reports about alarms and deciding the action to be taken.
- Start-up of gas turbine.
- Calibration & installation & test and putting in service of all types of instruments e.g. transmitters of pressure & temp. & flow etc.
- Commissioning of all types of actuators (pneumatic & hydraulic and motorized).
- Maintenance & monitoring the Symadin system.
- Maintenance of air compressors (Atlas Copco).
- Work on major inspection in the following:
  - Disconnect and remove all tasks cables and actuators and make maintenance for it.
  - Remove all pressure, temperature and vibration sensor and make the needed calibration to it.
  - Make maintenance for (teleperm, governor).
  - Make maintenance for (excitation and SFC) systems.
  - Make maintenance and calibrate the L.V.D.T of fuel gas & fuel oil control valves and EHC of fuel gas and oil.
  - Calibrate and test all tasks on the control panel.
  - Check and repair the alarm system.
  - Calibrate and test the (co2 and deluge) fire system.
  - Calibrate the limit switch of shut off valve and E.S.V for gas and oil.
  - Make tests for all gas turbine control system.

**Dates** : From 1999 till Apr. 2006

**Project** : Damietta Combined Cycle Power Plant 1230MW

**Job title** : Operation Shift Charge Engineer

**Job Description** :

- DCS operating & monitoring the steam turbine 145MW and its auxiliary such as condenser condensate pumps, circulate water pumps, lube oil system, control oil, system, generator cooler step up transformer and its pumps.
  - Start-up and shutdown the unit and Working in emergency trip (ET) and preparing daily reports of fuel oil and fuel gas consumption and MW generated.
- DCS Operating & monitoring Boilers HRSG capacity 500 T/H of steam (Heat Recovery Steam Generation) and its auxiliary such as HP & LP

pumps, drums, super heater, filling, safety valves pumps, derator, instrument sets pressure gauges (PG) & transmitters (PT) and working in the emergency trip of HRSG (ET).

- I can start-up & shutdown and control of any disturbance in H.R.S.G for operating and monitoring and troubleshooting steam turbine (145MW Alston manufacturing).
- Preparing daily reports of fuel oil and fuel gas consumption and MW generated.
- DCS operating & monitoring auxiliaries of steam turbines such as instrument and service air compressors, circulating pumps, service pumps, closed cooling, chiller HVAC, buss bar 6.3KV & 400KV, fire fitting for the plant, intakes and fuel oil treatment.
- Local and DCS operating & monitoring 135MW Siemens Gas turbine V94.2. and its auxiliaries such as bumps AC and DC. Compressor, filters, fuel oil and gas, fire system fighting CO2, protection sets and working in the emergency trip (ET) of unit.
  - Operating & monitoring troubleshooting and safety of gas turbine.
  - Preparing daily reports of fuel oil and fuel gas consumption and MW generated.
  - Gas turbine unit consists of: Synchronous gen., axial compressor has 16 stage compress ambient air to 10 bar combustion chamber (mixing fuel gas with air) in the hybrid burners which consists of diffusion, premix and pilot. Turbine has 4 stage – lubrication oil system Gas turbine speed is 3000 r.p.m, gas operation pressure 22:25 bar.
  - I can start-up/shutdown gas turbine I can deal with any disturbance in the unit before start-up the unit I checked up about important parameters such as (level of oil – no isolation found – main valves of gas are opened – all C.B. are in rack in – no earth Found – pressure of gas 22 bar – no alarm on the panel – insure of temp. of oil).
- Operating & monitoring (220KV, 66KV, 6.3KV) AC & (220 V, 48 V) DC battery charger Unit Switchgear, transformers protections, circuit breakers working with air pressure and isolated with F6 gas.
  - Preparing daily reports for consumption and MW generated.
  - I can cooperate with maintenance team and safety team in simple form.

**Further experiences :**

- Working with Sulzer Turbo Service Company as Teleperm ME Control Engineer for Siemens gas turbine V94.2 in Dzerzhinsky Power Plant in Russia in Sep. and Oct. 2010 during (H.G.P) inspection (Russia):
  - Software modification of TELEPERM ME programs.
  - AS220EHF – AS220E – AS231 – OS 250PC-STRUCK AS220EA.
  - Troubleshooting of gas turbine instrument & control system.
  - Disconnect and remove all tasks cables and actuators and make maintenance for it.
  - Remove all pressure, temperature and vibration sensor and make the needed calibration to it.
  - Make maintenance and calibrate the L.V.D.T of fuel gas control valves and EHC of fuel gas.
  - Calibrate the limit switch of shut off valve and E.S.V for gas and oil.
  - Make tests for all gas turbine control system.
  - Make maintenance for (teleperm, governor).

- Troubleshooting of gas turbine instrument & control system.
- Calibration & installation & test and putting in service of all types of instruments e.g. transmitters of pressure & temp. & flow etc.
- Maintenance & monitoring the Symadin system.
- Joined to Turbo Control Solutions Company (TCS) in Malaysia - Kuala Lumpur (Mar. 2011), working as Siemens Technical Support Engineer and Siemens Control Engineer (Malaysia).
- By the agreement between TCS and Sulzer Turbo Service Company I gave training course to the Control Engineers of Sulzer in Holland (Venlo) for one week in May 2011 for Teleperm ME control system, main subject of the course:
  - AS220EHF system overview.
  - AS220EHF system installation and commissioning.
  - AS220EHF system configuration.
  - AS220EHF system component.
  - AS220E.
  - Input /output modules.
  - Alarm logic and dual channel inputs.
  - Gas Turbine Protection (EZ).
  - Start-up, shutdown, subgroup control, sub loop control, Individual control.
  - Turbine supervision.
- By the agreement between TCS and Sulzer Turbo Service Company working with Sulzer Turbo Service Company as Teleperm ME Control Engineer for Siemens gas turbine V94.2 in Dzerzhinsky Power Plant in Russia in Aug. and Sep. 2011 (11 days) during minor inspection (Russia).
- Working with Sulzer Turbo Services Company as Siemens Control Engineer for Siemens gas turbine V92.4 in Sohar Power Plant in Oman in Jan. 2012 during major inspection for two gas turbines (Oman). The work during this period as follows:
  - Software modification of TELEPERM XP programs.
  - Troubleshooting of gas turbine instrument & control system.
  - Make tests for all gas turbine control system.
  - Make maintenance for (teleperm, governor).
  - Troubleshooting of gas turbine instrument & control system
  - Maintenance & monitoring the Symadin system.
- Working with Sulzer Turbo Services as Teleperm ME Control Engineer for Siemens gas turbine V94.2 in Dzerzhinsky Power Plant in Russia in Apr. 2012 in MW loss investigation (Russia). The work during this period as follows:
  - Check all gas turbine outlet thermocouples.
  - Check all cold junction compensation.
  - Verification of Thermocouple function.
  - Check all thermocouples and RTD readings in Teleperm and Simadyn by using PG and Hand tester.
- Working with Sulzer Turbo Services as Control Engineer for Siemens gas turbine V94.2 in Grangemouth Power Plant in Scotland in Sep. 2012 (two gas turbines major inspection). The work during this period as follows:
  - Software modification of TELEPERM XP programs.
  - Troubleshooting of gas turbine instrument & control system.
  - Make tests for all gas turbine control system.

- Working with Sulzer Turbo Services as Control & Commissioning Engineer for Siemens gas turbine V94.2 with T3000 control system in Mosenegro Power Plant in Russia in Nov. 2012 in major overhaul for two gas turbines. The work during this period as follows:
  - Software modification of SPPA T-3000 programs.
  - Troubleshooting of gas turbine instrument & control system.
  - Make tests for all gas turbine control system.
- Working with Sulzer Turbo Services as Control Engineer for Siemens gas turbine V94.2 in Alezzel Power Plant in Bahrain in Jan. and Feb. 2013 in major overhaul. The work during this period as follows:
  - Software modification of TELEPERM XP programs.
  - Troubleshooting of gas turbine instrument & control system.
  - Make tests for all gas turbine control system.
- Working with Sulzer Turbo Services as Control Engineer for Siemens gas turbine V94.2 in Dzerzhinsky Power Plant and St. Petersburg in Russia in Jun. 2013 in minor inspection. The work during this period as follows:
  - Software modification of TELEPERM ME programs.
  - Troubleshooting of gas turbine instrument & control system.
  - Make tests for all gas turbine control system.
- Working with Sulzer Turbo Services as Control & Commissioning Engineer for Siemens gas turbine V94.2 in Alezzel Power Plant in Bahrain in Nov. and Dec. 2013 in major overhaul. The work during this period as follows:
  - Software modification of TELEPERM XP programs.
  - Troubleshooting of gas turbine instrument & control system.
  - Make tests for all gas turbine control system.