

Holds a B. Sc. in Electrical Engineering (Communications & Electronics) and Pre-master degree. Has over 17 years of solid experience in different facets of refinery and power plant industry.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 06/02/1981  
Gender : Male  
Marital Status : Married  
Residence : Damanhour

## EDUCATION

- : B. Sc. in Electrical Engineering (Communications & Electronics), Alexandria University, 2003
- : Pre-master (Coding in Communication System), Alexandria University, 2004-2005

## LANGUAGES

Arabic : Native Language  
English : Excellent  
German : Good

## COMPUTER SKILLS

- : Windows, MS Office, Internet
- : AutoCAD 2D, 3D, TIA portal, Simatic S7 und WinCC

## TRAINING COURSES AND CERTIFICATIONS

- : Project Management Professional (PMP) course, Behira Engineers Syndicate (Mar. 2014).
- : ABB Italy DCS (Distributed Control Sys.), Symphony / Harmony, Zawiet Ghazal Power Station – Damanhour (Nov./Dec. 2013):
  - PGP Teneore Base Configuration.
  - Harmony Base Configuration.
  - Harmony and Composer Configuration.
- : ABB Italy DCS (Distributed Control Sys.), Symphony / Harmony, Genova Training Center (Genova – Italy) (Jul./Aug. 2011):
  - PGP Teneore Base Configuration.
  - Harmony Base Configuration.
  - Harmony and Composer Configuration.

- : PLC SIEMENS S7 (2) SIEMENS S7 advanced level, Abu Qir Training Center (Aug. 2008).
- : PLC SIEMENS S7 (1) SIEMENS S7 Basic level, Abu Qir Training Center (Jul. 2008).
- : DCS (Basics), Abu Qir Training Center (Apr./May 2007).
- : Instruments (Basics), Abu Qir Training Center (Nov./Dec. 2006).
- : Software skills development program, Information Technology Institute (ITI), Cairo (Sep. 2005 - Jul. 2006).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Nov. 2020 till Aug. 2021  
**Employer** : Elektrohanza, Bonn - Germany  
**Job Description** : Support of the I&C Manager by supervised the construction and pre-commissioning works loop check and function test at site and prepare the required documentations as well as the red marking drawings for the construction project.

**Dates** : From Jan. 2018 till Jan. 2020  
**Employer** : GS Engineering & Construction (E&C)  
**Project** : ERC Refinery Project (1.3 Billion Dollar) (biggest in AFRICA), Mostorod  
**Job title** : Senior Instrument Engineer  
**Job Description** :

- Construction, Maintenance, Punch items clear and as built documentation for plant in the petrochemical industry (Sulfur Recovery Unit SRU, Sewage Water System SWS and Amine Recovery Unit ARU).
- Instrumentation.
- Truck Scale system.
- Sulfur Solidification system.
- CEMS and Closed Circuit Television CCTV.
- Coordination between providers.
- Coordination with the mechanical department.
- Clear all punches with the customer.

**Dates** : From Jan. 2016 till Jan. 2018  
**Employer** : ELSEWEDY PSP  
**Project** : BENI SUEF POWER PROJECT (4800MW)  
 The BENI SUEF Power Project is approximately 60km south of CAIRO. The facility is a 2 on 1 combined cycle configuration consisting of eight (8) SIEMENS SGT6-PAC 8000H gas turbine generating units (GTGS), eight (8) heat recovery steam generators (HRSGs), four (4) SIEMENS SST6-4000 steam turbine generators (STGs), and cooling towers.  
**Job title** : Lead I&C Engineer  
**Job Description** :

- Construction, Loop check and Function test and as built documentation for a combined cycle power plant with a total output of 4800MW.
- Commissioning for BOP Instrumentation PH, ORP, CL, Turbidity and conductivity.
- DCS control technology.
- Programmable logic controller PLC.
- Continuous Emissions Monitoring System CEMS.

- Closed Circuit Television CCTV.
- Fire alarm system and Public address system.
- Emergency Shut Down system ESD.
- Lighting and power system.
- Cold commissioning loop check area BoP.

**Dates** : From Nov. 2014 till Dec. 2015

**Employer** : URBACON UCC

**Project** : MESIEED Power Project Extension, Qatar

The MIESEED Power Project is approximately 60km south of DOHA on the coast. The extension is a 2 on 1 combined cycle configuration consisting of two (2) SIEMENS SGT6-PAC 5000F Gas turbine generating unit (GTGS), two (2) heat recovery steam generators (HRSGs), one (1) SIEMENS SST6-4000 steam turbine generator (STGs), and one (1) sea water condenser.

**Job title** : Senior E, I&C Engineer

**Job Description** :

- Construction and as built documentation for a gas turbine power plant with a total output of 800MW.
- Instrumentation.
- P&ID, PLC (S7 Siemens), I/O list, DCS specification, 3D modeling, instrument list, connection drawings, wiring details, laying of 3D modeling, cable routing, data sheets, assignment list and isometric drawings.
- Lighting and power system.
- Coordination between providers.
- Coordination with the mechanical department.
- Provide technical support to the subcontractors.
- Clear all punches with the customer.

**Dates** : From May 2014 till Aug. 2014

**Employer** : [EGYPTROL](#), SAMSUNG C&T Subcontractor

**Project** : Qurayyah Independent Power Plant Project (QIPPP) in Saudi Arabia

The QURAYYAH IPP Project is approximately 100km south of the port of DAMMAM on the coast in the Eastern province of the kingdom of Saudi Arabia. The facility is a 2 on 1 combined cycle configuration consisting of twelve (12) SIEMENS SGT6-PAC 5000F gas turbine generating units (GTGS), twelve (12) heat recovery steam generators (HRSGs), six (6) Siemens SST6-4000 steam turbine generators (STGs), and six (6) sea water condensers.

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

**Job Description** :

- Commissioning for a combined cycle power plant with a total output of 4000MW.
- Commissioning for BOP with control technology DCS (Siemens) and programmable logic controller PLC (S7 Siemens) programming.
- Closed Circuit Television CCTV.
- Vibration Monitoring System VMS.
- Fire alarm system and Public address system.
- Emergency Shut Down system ESD.
- Lighting and power system.

**Dates** : From Apr. 2011 till Apr. 2014  
**Employer** : ABB Egypt  
**Project** : DAMANHOUR Steam Power Plant Rehabilitation (325MW)  
**Job title** : I&C Construction & Commissioning Engineer  
**Job Description** : 

- The main control system Symphony/Harmony DCS erection, commissioning and start-up.
- PGP4.1 and Composer4.1 installation.
- Auxiliaries systems DCS loop like Waste water, Demineralization and Auxiliary Boiler to the main DCS loop erection, commissioning and start-up.
- Water clarified system PLC to the main DCS loop erection, commissioning and start-up.
- Fire alarm (Honeywell) and public address (FITRE) systems erection, commissioning and start-up.
- TV camera system (TECNOVISION) to the burners of main boiler erection, commissioning and start-up.

**Dates** : From Apr. 2010 till Apr. 2011  
**Employer** : ANSALDO CALDAIE EGYPT  
**Project** : DAMANHOUR Thermal Power Plant Rehabilitation (325MW)  
**Job title** : I&C Construction & Commissioning Engineer  
**Job Description** : 

- Superheat coils temperature thermocouple sensors to the main boiler erection, commissioning and start-up.
- HORIBA France Gas Analyzer system erection, commissioning and start-up.

**Dates** : From Apr. 2007 till Apr. 2010  
**Employer** : West Delta Electricity Production Company  
**Project** : DAMANHOUR Power Plant  
(1x325MW Steam Power Plant and 150MW Combined Cycle Power Plant)  
**Job title** : I&C Maintenance Engineer  
**Job Description** : 

- All maintenance work related to the main DCS ABB INFI 90, including:
  - Loop check, logic test, function test and implementation the logic of BOP, HRSG and pumps.
  - Communication between the main DCS loop and the BOP loop.
  - Communication between the main DCS loop and the paging system, air compressor system, PLC system and fire alarm system.
- Commissioning and start-up of ANSALDO steam turbine with ABB symphony Harmony DCS, including:
  - Design review, loop check, logic test, function test.
  - Commissioning, performance test, start-up and maintenance.
  - Install and calibrate all control and safety valves, instrumentation.
  - Chemical dosing system.
  - Chemical analysis system.
- Commissioning and maintenance of CEMS Continuous Emission Monitoring System, including:
  - Analyzers install and calibrate.
  - Installation and configuration of data acquisition system.
  - Installation and configuration of SIEMENS S7 PLC.
  - Design review, logic and function test of PLC.

- Commissioning Hydrogen Generation Plant, including:
  - Design review, installation and configuration of SIEMENS S7 PLC.
  - Instrumentation and control valves installation.
- Commissioning, installation and maintenance of fire alarm system.
- Commissioning, installation and maintenance of the BENTLEY NEVADA vibration system installed on steam turbine, pumps and air compressor.
- Commissioning, start-up and maintenance of water treatment and sewage plant, including:
  - Design review, logic test and function test plant logic operation.
  - Install all electrical equipment and instrumentation.
  - Installation and configuration of SIEMENS S7 PLC.

**Dates** : From Jun. 2006 till Apr. 2007  
**Employer** : West Delta Electricity Production Company  
**Project** : DAMANHOUR 150MW Combined Cycle Power Plant  
**Job title** : Operation Engineer

**Dates** : From Jun. 2005 till Jun. 2006  
**Employer** : West Delta Electricity Production Company  
**Project** : DAMANHOUR 325MW Steam Power Plant  
**Job title** : Operation Engineer

**Dates** : From Oct. 2003 till Dec. 2004  
**Employer** : Egyptian Army  
**Project** : Military Service  
**Job title** : Soldier

**Field of experience** :

- In-depth knowledge of basic and detail engineering for plants in the petrochemical industry and power plant construction (combined cycle power plants, Gas turbine power plants, steam turbine power plants).
- Creation of cable roots, data sheets, isometric drawings, lists of instruments, etc.
- Calculation of short circuit current.
- Good knowledge of PLC and HMI programming using Siemens programs: WinCC, S7-300 / 400, TIA Portal.
- Strong understanding with different EPC philosophies.
- Possess strong leadership and dynamic interface in a team environment and working with others to achieve the best possible output from all functional viewpoints.
- Demonstrated abilities and passion for providing technical advice to staff members and embracing a culture that values team work.
- Actively displays initiative in the development and modification of existing design with the responsibility for meeting customer requirements and company internal requirements for Instrument and Control scope.
- Technical support for development of instrumentation engineering and design functions through the evaluation and introduction of new design and analysis capabilities.
- Well-exposed and experienced in the commissioning and maintenance of the following:

- ANSALDO ENERGIA steam turbine.
- SIEMENS SGT6-PAC 5000F Gas Turbine-Generator Units.
- SIEMENS SST6-4000 Steam Turbine-Generator Units.
- Well-exposed and experienced in the commissioning, maintenance and programming of the following:
  - DCS ABB Symphony/Harmony.
  - DCS SEMIENS T3000.
  - PLC SEMIENS SAIMATIC S7.
  - WINCC SAIMATIC.
- Well-exposed and experience in I&C erection work HRSG, Boiler, Gas turbine and water treatment plant.
- High knowledgeable in water treatment plant commissioning and troubleshooting.
- Automation field:
  - ABB Symphony Harmony DCS.
  - SIEMENS T3000 DCS.
  - Programming, maintenance and function check of SIEMENS STEP 7 PLC.
  - Programming and communication work of SIEMENS WINCC.
- Instrumentation field:
  - Tuning and calibrate the control valves.
  - Maintenance ANSALDO steam turbine.
  - Maintenance MITSUBISHI gas turbine.
  - Calibrate transmitters and analyzers (Temp, Level, Pressure, DO, OIL, PH, SILICA, ORP and conductivity).
  - Maintenance work of gas compressor and air compressor.
  - Maintenance work of paging system.
  - Maintenance work of fire alarm system.
  - Maintenance work of SIEMENS S7 PLC.
  - Maintenance work of steam turbine and BOP.
- Electrical field:
  - Design C.B.s interlock control circuits.
  - Erection of conduit, cable, termination and cable tray.
- Mechanical Commissioning field:
  - Commissioning work of BOP.
  - Different types of pumps.
  - Electro chlorination plant.
  - DEMI DESAL plant.
  - SEWAGE and waste water treatment plant.
  - Chemical dosing system.