

Holds a B. Sc. in Industrial Electronics & Control Engineering and has over 13 years hands-on experience working in I&C field.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 08/03/1985  
Gender : Male  
Residence : Cairo

## EDUCATION

- : B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2007
- : Studying for Master in Industrial Electronics & Measurements Engineering

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

- : Windows, MS Office, Internet
- : Matlab – Basic – Circuit Maker – Work Bench – Eagle – PCB Wizard – Labview - SAP PM - Amplisma

## TRAINING COURSES AND CERTIFICATIONS

- : Off-shore training at Siemens Academy in DCS T3000 (Germany).
- : Obtaining the principles of effective training & Interpretation Course (TOT) by Tamkeen New Era for training and Consulting, Cairo.
- : Off-shore trainings at GE Company (Belfort - France):
  - Gas Turbine MK VIe Control System, EX2100e & LS2100 & GPP Class.
  - Gas Turbine & Generator Maintenance.
- : Off-shore training at Yokogawa Company (Bahrain): O&M for Yokogawa DCS (Centum VP).
- : On-shore training in O&M for steam turbine by Ansaldo Company: STCS Symphony Harmony.
- : On-shore training in O&M for HRSG by STF Company.
- : On-shore training in Gas Turbine Operation by GE Company.
- : On-shore training in O&M for Hydraulic power unit by SEPCOIII Company.
- : Obtaining a Bechtel course in Shoubra El-Kheima Power Station.

- : Obtaining a training course on "O&M of Combined Cycle Power Plants" in Cairo North Power Plant, consist of two modules (2x750MW).
- : Obtaining a training course in the company of the Iron and Steel in Helwan (Instruments and Communication Sector).
- : Obtaining a training course at public hospital in Menoufia (Medical Instrumentation Sector).
- : Design of Active Disturbance Rejection Control via Fuzzy Logic.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Feb. 2021 till Mar. 2021  
**Employer** : Baker Hughes  
**Project** : Bana Gas Company (CS1), Performing module replacement (Gas turbine frame 3) and upgrade control system to MKVIe  
**Job title** : E&I Engineer  
**Job Description** :

- Check all materials as packing list and compare with Hook up, Control cable list.
- Following all construction activities, Hook up and cable terminations.
- Performing loop check and calibration with owner.

**Dates** : From Dec. 2019 till Jan. 2021  
**Employer** : GE Power  
**Project** : EVM II consists of one module (2x2x1 850MW Combined Cycle) in Mexico  
**Job title** : I&C Engineer  
**Job Description** :

- Commissioning for all Foundation Field Bus devices FFB.
- Commissioning for a Profibus with different system MMx00. WAGO, etc.
- Function Test for Condensate, Feed Water, Closed Cooling water, LP, Blow down, ACC, etc.

**Dates** : From Jul. 2015 till Dec. 2019  
**Employer** : Cairo Electricity Production Company (CEPC)  
**Project** : Giza North Power Station consists of three Modules (3x750MW Combined Cycle)  
**Job title** : Senior I&C Engineer  
**Job Description** :

- Perform all necessary activities for corrective and preventive maintenance as per O&M manual for Gas turbines, HRSGs, Steam Turbines.
- Perform all necessary activities for various heavy-duty gas turbines that include maintenance, troubleshooting, fixing and working on software & instruments, perform all applicable TILs to units through our dashboard.
- Responsible for Prepare Spare Parts for *six* Gas turbines (GE 9FA), auxiliary Systems and MKVIe Gas Turbine during Preventive maintenance and outages.
- Performed more than 20 outages (CI, HGPI, MI).
- During my work with CEPC, I got a lot of freelancer contracts and assignment with GE Power, Navsar, Simbest, Egyptrol, Kahromica.

**Dates** : From Mar. 2019 till Apr. 2019  
**Job title** : MK Vle Instructor  
**Job Description** : MK Vle O&M Training Course for Angola Group with EEHC.

**Dates** : From Feb. 2019 till Mar. 2019  
**Job title** : I&C Consultant Engineer  
**Job Description** : Labuan Power Station in Malaysia (3x32MW Gas Turbine frame 6B) with Simbest.

**Dates** : From Jan. 2019 till Feb. 2019  
**Job title** : I&C Consultant Engineer  
**Job Description** : Arab Potash in Jordan to perform assessment work with Navsar.

**Dates** : Nov. 2018  
**Job title** : I&C Consultant Engineer  
**Job Description** : KUBOTA Power Station in Malaysia (2x32MW Gas Turbine frame 6B) with Simbest.

**Dates** : From Mar. 2018 till Aug. 2018  
**Employer** : Freelancer Contract with GE Power - [EGYPTROL](#)  
**Project** : Assiut Combined Cycle Power Plant consists of Two Modules (2x750MW Combined Cycle)  
**Job title** : DCS Commissioning Engineer  
**Job Description** :
 

- DCS System (Mark Vle) power up panels, EWS, OWS, Toolbox ST installation.
- Cimplicity configuration on OWS and screens verification.
- Setting of network IP configuration for work station and controllers.
- Verification & correction of I/O configuration.
- Rectifying diagnostic alarm faults.
- I&C commissioning (loop check, function test, logic test) for HRSG, ACC, ST.
- Field instrument troubleshooting and correction (MOV, CV, sensors).
- Troubleshooting the control and DCS, software and hardware.
- Perform all necessary activities for HRSG that include maintenance, troubleshooting, fixing and working on software and instruments during the steam blow and reliability test.

**Dates** : From Mar. 2017 till Jan. 2018  
**Job title** : I&C Trainer Engineer  
**Job Description** : Trainer for a new group of I&C Technicians in Mega Project Egypt (3x4800MW Combined Cycle).

**Dates** : From Apr. 2013 till Jul. 2015  
**Employer** : Freelancer Contract with GE Power - Kahromika  
**Job title** : I&C Commissioning Engineer  
**Job Description** : Worked as Commissioning & Start-up Engineer for GE gas turbines frame 9FA DLN2.6+:

- Perform the installation and calibration for all instruments and control systems.
- Continuity for all Control Cables / Cold & Hot loop Check for all Systems.
- Walk down on all Systems, MLIs and follow P&ID.
- Commissioning and start-up for Gas Turbine systems:
  - Air system (Inlet & Exhaust & Cooling & Sealing).
  - Heating and Ventilation System.
  - Oil System (Lube & Hydraulic oil).
  - Liquid Fuel Oil & water injection System.
  - Atomizing Air & Purge Air system.
  - Preparing Gas treatment Area (Knock out drum & Filter Separator & WBH & GC & Scrubber & Ultrasonic flow meter).
  - Gas Fuel System (Calibration & Stroke valves, Test Instrument).
  - Fire protection System (Firefighting, Gas detection).
  - Cooling water System.
  - Water Wash Skid System.
  - Control system (MK VIe, Auxiliary panel).
- Commissioning and start-up for standard test:
  - Crank / false fire / First fire / Loss of flame trip test.
  - First FSNL / Speed Limitations / Over speed Trip test.
  - First Synchronization.
  - Fuel gas and liquid fuel tuning.
  - Base-Load tests (Changeovers at base - load & Water injection tuning).
  - Run back / Load rejection / Island mode test.
  - Transfer Gas to Liquid & Liquid to Gas test.
  - Run back / Load rejection / Island mode test.
  - Off-line & On-line water wash.
- Performing Performance Test, Reliability Run.
- Commissioning for diverter damper (HPU) and interface signals with DCS.

**Dates** : From Feb. 2011 till Apr. 2013

**Employer** : Cairo Electricity Production Company (CEPC)

**Project** : Giza North Power Station consists of three Modules (3x750MW Combined Cycle)

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

**Job Description** :

- Study of contracts related to Giza North Power Station Project Specialize:
  - CP-101 (COMBUSTION TURBINE GENERATORS) including all instrumentations, protections, TCS.
  - CP-102 (Civil Work) including PABX, DECT, Computers, Copiers, Data Network, Printers, I&C Workshop, Fire Alarm, Potable Water Station, HVAC, Travelling Water Screen & Trash Rack, Paging System.
  - CP-103 (Environmental).
  - CP-111 (Water Treatment Station).
- Analysis of technical offers submitted by bidders & make negotiations with successful bidder.
- Review of technical documents submitted by contractors.
- Follow up the MRR (Material Received Report) comparing with Specification.
- Follow up the CDDR (Contract Disposition Deviation Report) comparing

with Specification.

- Follow up the FCR (Field Change Report) comparing with Specification.

**Dates** : From Sep. 2010 till Feb. 2011  
**Project** : Cairo North Power Station, consists of TWO modules (2x750MW Combined Cycle)  
**Job title** : Operation Engineer

**Dates** : From Sep. 2007 till Sep. 2010  
**Employer** : Al-Amir Electronics (E.K.T) Company  
**Job title** : E&I Engineer (full & part time)  
**Job Description** :

- Responsible for Electronic Component / PLC / microcontroller / transformers / DC & servo & stepper motors / batteries / Tools.
- Responsible for Test Equipment (measure equipment / automation control equipment / UPS & Stabilizers).
- Responsible for Computer Network Accessories / Electronic Displays.

Technical Skills:

- Microcontroller (Motorola – PIC) – Zelio – PLC (Schneider (Nano - Micro) / Handheld (FTX117) – Siemens (S7200 / S7300) – Allen Bradley – SCADA & DCS – FPGA (VHDL).
- PID control / Intelligent control (Fuzzy - Neural)/ Real time control system.
- Power & Industrial electronics and it's applications.
- Mechatronics & Robotic systems.
- Hydraulic and Pneumatic systems.
- Medical instrumentations.