Holds a B. Sc. in Control Systems & Computers Engineering and a Higher studies Diploma in automatic control. Has over 13 years' experience in detailed maintenance, commissioning and development co-ordination of instruments and control systems in Power Plants.

PERSONAL DATA

Nationality	**:**	Egyptian
Birth Date	**:**	20/09/1987
Gender	**:**	Male
Marital Status	**:**	Married
Residence	**:**	Currently Ghana

EDUCATION

- **:** B. Sc. in Control Systems & Computers Engineering, Al-Azhar University, 2009
- **:** Higher studies Diploma in automatic control, Cairo University, 2014

LANGUAGES

Arabic	**:**	Native Language
English	**:**	Fluent

COMPUTER SKILLS

- **:** Windows, MS Office, Internet
- **:** Programming languages: C#, Java

TRAINING COURSES AND CERTIFICATIONS

- **:** Instruments (Trainer) (Sep. 2021).
- **:** Classic control and PLC (Trainer) (Feb. 2021).
- **:** Troubleshooting of printed circuit boards (May 2019).
- **:** Burner management system (Foxboro) (Sep. 2018).
- **:** Boiler protection system (Triconex) (May 2018).
- **:** Instruments maintenance by Siemens (Apr. 2018).
- **:** Java development language, self-study.
- **:** English course by Berlitz Center (2017).
- **:** OSHA construction 10 hrs (Sep. 2017).
- **:** Maintenance reliability training (May 2017).
- **:** Hydrogen unit operation & maintenance (Apr. 2017).

	:	Project Management Professional (PMP) training (Mar. 2017).
	:	Automotive repair and maintenance training (Feb. 2017).
	:	Boiler operation training, Ansaldo (Sep. 2016).
	:	Analyzer (sodium, conductivity, PH, silica) equipments training (May 2016).
	:	Instrument and PLC Allen Bradley training (Mar. 2016).
	:	Introduction in steam power plant (Sep. 2010).
	:	MCSE (two tracks) (Jun. 2009).
	:	CCNA (Aug. 2008).
	:	C# programming (May 2007).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	**:**	From Feb. 2023 till now
Employer	**:**	ABB
Project	**:**	Ghana
Job title	**:**	DCS Engineer (800xA system)
Job Description	**:**	• Work as DCS Engineer for commissioning and start-up combined cycle (Bridge) power plant.
		• Creating and modification logic diagrams.
		• Creating and modification graphics HMI.
		• Work on ABB ESD system.
		• Work on Machinery Condition Monitoring (MCM800) system.
		• Work on digital communication (Modbus/TCP, OPC, profibus).
		• Powering remote I/O cabinet and connecting with the CPU cabinet.
		• Making loop check and function test for the logic.
		• Configuring network switches.
		• Admin for the domain.

Dates	**:**	From Sep. 2014 till Feb. 2023
Project	**:**	Suez Thermal Power Plant (upgrading the steam power plant from 95MW to 1x650MW)
Job title	**:**	I&C Engineer
Job Description	**:**	• Lead a team of 6 people to troubleshoot any defect in the instrumentation of the site.
		• Supervised and participated for the following activities throughout the construction, commissioning and start-up phases of the power plant:
		- Installation for the instrumentation and control systems.
		- Commissioning for the Burner management system with Invensys DCS (Foxboro I/A) and Protection system (Triconix).
		- Commissioning for ABB power plant DCS (800XA).
		- Commissioning for the Soot-blower system with Siemens s7-300 PLC.
		- Commissioning for the Water treatment system with Allen-Bradley PLC control.
		- Commissioning for the Turbine feed water pump with Woodward control system Micronet.
		- Preparing the recommended spare parts and workshop tools.
		- Reviewing the control philosophy, P&ID, wiring and hook-up

documents.
- Participating in DCS I/O panels Factory acceptance test for the ABB 800XA DCS.
- Following up the calibration of the instruments of the site.
- Follow up the loop check for the instruments (vibration, pressure, flow, level, temperatures) and valves of the power plant.
- Commissioning for the fire alarm system.
- Commissioning for the hydrogen unit in our power plant.
- Commissioning for the Continuous emission monitoring system (CEMS).

- Administrator for the 800XA ABB DCS.
- Administrator for the burner management system and boiler protection system (Foxboro and triconex).
- Automation Engineer for the water treatment as PLC Engineer "Allen-Bradley" type.
- Maintain the instruments (ABB, Rosemount, Siemens, Endress+Hauser and HACK) for various measurements, switches and valve's positioners (Siemens, eckardt and DVC 6200) of the power plant through the scheduled and corrective maintenance.
- Maintenance Engineer for the hydrogen generator proton type.
- Maintenance Engineer for the 4 centrifugal compressors Centac type with PLC master controlling the system pressure and the anti-surge condition.
- Maintenance Engineer for the auxiliary boiler with PLC Siemens s7-400 control system.
- Maintenance Engineer for pneumatic, solenoids and motorized (Auma, Rotork, Centork, etc….) on/off and control valves.
- Maintenance Engineer for the air dryer system with PLC Siemens s7-1200 control system.
- Increasing the efficiency of the rotating equipment by maintaining the oil purification control system.

Dates	:	From Sep. 2010 till Sep. 2014
Project	:	Ataka Power Plant (4 units with totally 900MW steam power plant)
Job title	:	I&C Engineer
Job Description	:	• Participated the DCS team for caring out all control functions that improve the power plant process.

- Participated the DCS team for caring out all control functions that improve the power plant process.
- Solved the (DCS ovation 3.3.1) software and hardware defects.
- Solved the network (Cisco switches) faults between controllers and the HMI station.
- Identified new signals (analog, digital…) in the process.
- Created and modified control loops.
- Created and modified displays to preview online signals.
- Administrated vibration system (CSI 4600) that was linked with the DCS by OPC protocol, this was comprised of one server, client (DCS) and vibration cabinet with I/O modules.

Dates	:	Part time
Employer	:	Contaqa Co.
Project	:	Calibration for the instruments of Assiut Combined Cycle Power Plant

Job title	**:**	Calibration Engineer
Job Description	**:**	• Calibration the instruments of the site.
		• Preparing the certificates of the instruments.

Dates	**:**	From Feb. 2010 till May 2010
Employer	**:**	Micro Company, Cairo – Egypt
Job title	**:**	Computer Engineer
Job Description	**:**	Fixed computers and power supplies of the computer devices.

Technical Skills:
- Instrumentation (installation, commissioning and maintenance).
- Communication protocols (Foundation Field bus, Profibus, HART).
- Burner management system (BMS).
- ESD (Triconex system).
- PLC programming languages (ladder, structure text, function block, sequential function chart).
- DCS (ovation, 800XA, Foxboro, Woodward).
- ESD (Triconex system).
- Siemens applications (sematic, Wincc and TIA portal).
- Allen Bradley applications (Rslogix and factory talk view studio).
- Instrumentation calibration.
- Programming (c#, java).
- Classic control.
- Safety instrument system concept.
- PLC (Siemens s7-300, 400, 1200 and Allen Bradley).
- Instrumentation documents (P&ID, process flow diagram and loop diagram).
- Process control (PID concept).
- Thermal Power Plant process.
- Networking.
- Preventive maintenance.
- OSHA.