

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 9 years hands-on experience in process engineering & control systems engineering.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/05/1985
Gender : Male
Residence : Zamalek, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2009

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: PLC certificate, Telecom Egypt Training Center.
: C++, High Tech. Centre, Faculty of Engineering.
: MATLAB (Intro. & Programming), High Tech. Centre, Faculty of Engineering.
: Siemens programming, PLC with Full integration (TIA), level I (ST-PRO1) (Jan. 2010).
: Siemens programming, PLC with Full integration (TIA), level II (ST-PRO2) (May 2010).
: Siemens programming, HMI OPs and SCADA, WinCC (ST-BWINCCS) (Dec. 2010).
: Siemens programming, HMI OPs and SCADA, WINCC Flexible (ST-WCCFSYS1) (Feb. 2011).
: Hardware System Design.
: Triconex course.
: Basic Graduate I/A training.
: Soft skills course..
: PLC programming course.
: Foxboro I/A and Triconex basic skill training.

- : Cyber Security Awareness Training.
- : Travel Safety & Security Training.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2012 till now
- Employer** : Schneider Electric
- Projects** :
- ZOHR Project (ZOHR GREEN PLANT – Engineering / FAT / SAT / Operation support) - Egypt:
 - Ownership of PLER4 engineering phase.
 - PLER4 FAT Technical Leader.
 - PLER2 FAT Hardware Engineer.
 - OFFSHORE Commissioning/startup and SAT Technical Leader.
 - PLER4 Commissioning/startup and SAT Technical Leader.
 - PLER3 Commissioning/startup and SAT Software Engineer.
 - Site Operation Support (day and night shifts).
 - BLNG Project (Brunei Darussalam) (BLNG DCS system Upgrade – Site (upgrading action ONLINE)):
 - Cutover and online upgrade for FOXBORO DCS system at Brunei Liquefied Natural gas plant.
 - Upgrading the controllers from CP30, CP40, CP60....to FCP270.
 - Upgrading the legacy communication Gateways to FDSI (FCP270+ FBM230/231).
 - Establish communication in different protocols (mainly MODBUS) with different third party PLCs as Honeywell, SIEMENS, Allen Bradley, GE, CCC...etc.
 - Cutover Philosophy Analysis and preparation.
 - CHINA NUCLEAR Project (CHINA) (CHINA Nuclear Plant – remote V and VI): Build and verify test cases procedures.
 - MLNG Project (Malaysia) (MLNG DCS system Upgrade – Site (upgrading action ONLINE)):
 - Upgrade in Engineering system administration, interfacing DCS system with existing yokogawa, honeywell C300, CCC 5, HIMA, Mark VI, BN, ABB, Triconex, Mark V, ENRAF.
 - Upgrading DUA network to mesh network, IFAT, FAT, upgrading the system Online, commissioning, SAT.
 - Clearing punch list, reviewing and handover vendor documents (FDS, System interconnection drawings, cabinet drawings, power consumption, System interface list, FAT / SAT documents.
 - Upgrade Operating System from UNIX to Windows Server 2003.
 - Upgrade Node Bus Network to Mesh Network.
 - Upgrade old communication Gateway to new FDSI.
 - Factory Acceptance Test (FAT).
 - Site Acceptance Test (SAT).
 - DCS Cabinets check (Visual, Electrical, and Mechanical).
 - System power up for DCS cabinets and Marshalling Cabinets.
 - Switch Configuration.
 - Setup Communication between DCS, ESD System.
 - Setup Communication between DCS and MCC.

- Setup Communication between DCS and Third Party Packages (GE, BN, HIMA & Merphy).
- System Level Check.
- Functions Check.
- Shutdown Activities.
- Start-up and Commissioning (3 Modules).
- Assil & Karam Project (Egypt):
 - Creating displays according to P&ID (statically).
 - Connecting the displays with database (dynamically).
- Estyrnics Project (Egypt):
 - Updating Database between DCS and ESD system.
 - Graphics modification.
 - Testing for new modification and troubleshooting.
- MLNG Project (Malaysia) (MLNG DCS system Upgrade - Remote Engineering and testing):
 - Database conversion from Modicon Gateways to FDSI.
 - Database conversion from save_all to IACC for CP30/40/60 to FCP270.
 - FDSI IO points Test using Modbus simulator and 3rd Party systems.
- MLNG Project (Malaysia) (MLNG DCS system Upgrade (Phase 2) – Site (upgrading action during shutdown)):
 - Dismantle old cabinets and install new cabinets.
 - Cable termination/ Cabinets power up.
 - System Tie in to Mesh Network.
 - Download CPs database.
 - Establish Communication with 3rd Party systems.
 - 10% testing for FDSI IO points with customer and 3rd party vendor witness.
 - Complete System Check Test.
 - Configure Process Alarms Horn for Routing to External Speakers.
 - SAT System Level Test with Customer witness.
 - Punch List Clearance.
 - Backup all workstations.
 - Start-up standby support (2 shifts).
- Infineum Project (USA) (Remotely migration recipes from Wonderware R-Batch into Wonderware In-Batch): Converting the process program from Wonderware R-Batch into Wonderware In-Batch System.
- NSPI Project (Canada) (Remote engineering of Process Graphics for a new Power Plant): Linking all Dynamics from reference snapshots and Database, revision and preparation for FAT.

Job title : DCS Senior / Lead Project Application Engineer

- Job Description** :
- Software skills:
 - IACC / FCS.
 - FOXDRAW / FOXVIEW.
 - PACTWARE.
 - AIM historian.
 - Sequence.
 - Continuous control configuration.

- Complex loops configuration.
- Logic/interlock programming.
- Logic writing.
- Hardware skills:
 - Designing, implementation and testing Pre-FAT, FAT & SAT.
 - HART communication design for HART transmitters connected to DCS and OFF IA Asset management system server as well.
 - Hardware documentation:
 - ❖ Cabinet layout drawing.
 - ❖ Cabinet dimension drawing.
 - ❖ Power distribution drawing.
 - ❖ Power calculation drawing.
 - ❖ System Architecture drawing.
 - ❖ System Interconnection drawing.
 - System definition.
 - Workstations, switches and network setup.
 - Hardware troubleshooting.
 - Bill of material and shipment preparing (packing list).
- COMMUNICATION (FDSI):
 - MODBUS.
 - PROFIBUS.
 - OPC.

Dates : From Mar. 2010 till Mar. 2012

Employer : NATGAS (NATIONAL COMPANY FOR NATURAL GAS)

Projects :

- Nile Suger Factory PRS
- Nubaria Power Plant PRS
- Rasheed PRS
- Kom Hamada PRS
- Abo Homos PRS
- West Alex PRS
- Agami PRS
- Borg El-Arab PRS
- El-Atf Power Plant PRS

Job title : SCADA and Automation Engineer

Job Description : Main experience in the natural gas field, responsible for:

- SCADA system in PRS's - Natural Gas Pressure Reduction Station - and valve rooms using WinCC, WinCC flexible.
- PLC programming (Simatic S7-300 using Step7 - Schneider Twido using TwidoSuite).
- Instrumentation installation and configuration (Flow Computers - Volume correctors - Smart transmitters).
- Coordinate planning, design and construction phase services for automation, control and SCADA projects for gas stations, pipelines and metering & filtering modules.
- Technical Objectives Regarding:
 - Analysis: Design automation systems architecture; specify components, software specification to accomplish proper supervisory control and data acquisition system.
 - Network & Communications: Specify network components and

define its specifications.

- Hardware: Install, troubleshoot, commission NATGAS's PLCs.
- Software (HMI):
 - ❖ Specify software specification.
 - ❖ Installation, maintenance, upgrade of SCADA projects.
 - ❖ Interconnection between PLC program and HMI program.
 - ❖ Backup the PLC & HMI Projects, archives and alarms list.
 - ❖ Upgrading SCADA projects periodically with state of the art technologies in the field of automation.

- Dates** : From Oct. 2009 till Feb. 2010
- Employer** : ASEC AUTOMATION
- Project** : Sa'eeda Cement Plant revamping - Algeria
(Remote Engineering, Design of sequence and flow sheets, Design of Function Specification and Logic Diagram, I/O's list)
- Job title** : Automation Engineer
- Job Description** : Main experience in the cement field, responsible for:
- Design of sequence and flow sheets.
 - Design of Function Specification and Logic Diagram.
 - Programming of Siemens PLC Simatic S7 using Siemens Step 7.
- Field of experience** :
- Experienced full scope projects include hardware design for system, marshalling, power distribution cabinets, power drawings design, detail layout drawings, power calculation, heat calculation, Support and supervise hardware integration in factory.
 - DCS engineering, Software projects include functional design specifications, Software programming using (functional block diagram, Ladder, structure text, Cause & Effect and flow chart diagrams), Data Base Manipulation.
 - Define continuous loops (complex and Simple) and logic (Discrete and Interlock) control from client P&IDs and technical descriptions.
 - Good experience in Oil & gas field, LNG field and Combined cycle power plants.
 - Complex / Simple loops experienced engineer (design, implementation, testing, commissioning and start-up).
 - Good experience of sequences configuration by using (HLBL & SFC Editor).
 - Complex control loops and sequences special test displays configuration and testing.
 - HMI configuration using FOXDRAW.
 - Alarming System Configuration / Management.
 - AIM historian configuration (messages and RTP).
 - MESH network switch configuration (ENTERASYS) using SCAS tool.
 - 3rd party communication configuration, establishment, testing and troubleshooting in DCS using different protocols (MODBUS, PROFIBUS, OPC and DNP3).
 - Asset Management System experienced engineer using Pact ware for monitoring / configuring field bus devices through HART communication protocol (Online / Offline configurations).
 - Loop checks, Functional check, Commissioning and startup support, hot loop cutover support and responsible to make hardware and software

modifications online.

- (FAT) Factory acceptance test support, (SAT) Site acceptance test support & (PAT) Performance Acceptance Test support.
- Responsible for Project engineering, system installation, system configuration, trouble shooting, commissioning & start-up support.
- On site Operator training.
- Multinational experience gained through working with various customers through different backgrounds and different work locations. Also got multiple very good feedbacks for excellent cooperation with customers.