

YASSER M. ABOELAZM

PROFILE Expert for Control and Automation in Industrial and Oil & Gas fields with about 15 years of experience for DCS, Triconex, PLC, HMI and SCADA engineer.
 Certified FS Eng (TÜV Rheinland) # 27530 / 23 - Safety Instrumented Systems.
 Strong Background for Electrical Power Systems and Protection gained from both academic and practical experiences.

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EXPERIENCE **LEAD DCS-SIS ENGINEER | PICS PROCESS SYSTEMS | JAN 2018 – PRESENT**
SENIOR FIELD APPLICATION ENGINEER | MISR CANADA SYSTEMS | JAN 2015 – JAN 2018
INDUSTRIAL AUTOMATION SENIOR ENGINEER | CONISYS | JAN 2012 – JAN 2015
DESIGN APPLICATION ENGINEER | CONISYS | JAN 2009 - JAN 2012

PROJECTS

- SCADA and Telecom Extension for ALTajamouat 66/11 kV Substation | **Nov. 2023 – Dec. 2023**:
 - o Implementation of Siemens S7-300 platform as RTU and WinCC SCADA package to locally display the 11kV thirteen panels extension substation parameters and produce operational reports, alarm lists, trends and management reports.
 - o Implementation of sending the data for these extension panels to Canal Regional Control Center (CANRCC) by using RUGGEDCOM RX1500 platform which provides the communication protocols (IEC 60870-5-101/104).
 - o Modification of CAD files for the RTU panel to contain the new signals come from the extension panels.
 - o Supervision of wiring implementation works between the switchgear extension panels and the RTU panel.
 - o Attending FAT and SAT activities.
- RTR - Plant 048 and Plant 072 | RAS-TANURA Expansion Project | KSA (RAS-TANURA) | (Triconex Project) | KSA | **Oct. 2023 – Nov. 2023**:
 - o Conversion of Ladder Logic programs written by TriStation Multi-System Workstation, TriStation MSW, for the two plants 048 and 072 to TriStation 1131.
 - o Extraction of C&E logic sheets and Logic Narrative from the Ladder Logic for the two plants.
 - o Testing converted TriStation 1131 programs against extracted C&E logic sheets and control narrative for the two plants.
- Western Desert Gas Complex for Egyptian Natural Gas Company | GASCO | (Triconex Project) | Alexandria | **Sep. 2023**:
 - o Deep studying for modifications and addition of new safety valves and DCS loops to the existing and working DCS/SIS system found in RAVEN plant.
 - o Attending the plant shutdown and implementing those modifications and additional loops and valves.

- ZULUF | One of Aramco Safaniyah Debottlenecking Onshore Plants | (Triconex Project with EEC Schneider Electric) | **Aug. 2023 – Aug. 2023**:
 - o Changes the Typical that will be used in the project as customer requirements.
 - o Preparing testing program for TAT.
 - o Attending TAT test with Aramco and GASCO
- Le Havre – FSRU | TOTAL | (Triconex Project with EEC Schneider Electric) | **Apr. 2023 – July 2023**:
 - o Building Project Typical for both ESD and FGS systems for the project
 - o Testing Typical with TOTAL France and Schneider Electric France in TAT test.
 - o Building the safety logic for both ESD/FGS systems based on C&E and Logic Diagrams.
 - o Building SFC sequences for start/stop firewater and jockey pumps in FGS.
- KSA Safaniyah Debottlenecking (Triconex Project) | Aramco | **Sep. 2022 – Apr. 2023**:
 - o Building up Triconex ESD program using Tristaion and SOE program for G26 (R1D) unit with 868 IO tags using Cause & Effect sheets.
 - o Building up Triconex ESD program for G57 (R1A) unit with 271 IO tags using Cause & Effect sheets.
 - o Building up Triconex ESD program for G57 (R1B) unit with 299 IO tags using Cause & Effect sheets.
 - o Building up Triconex ESD program for G57 (R1C) unit with 193 IO tags using Cause & Effect sheets.
 - o Adding Triconex ESD programs for three new equipment to an existing 486 unit with 48 IO tags using Cause & Effect sheets.
- Assiut National Oil Processing Company (ANOPC) | **Nov. 2022 – Jan. 2023**:
 - o Assiut Hydrocracking Complex Boiler:
 - o Building up boiler complex and simple analog loops in Foxboro Wonderware Archestra IDE using logic diagrams sheets.
 - o Building up boiler digital loops in Foxboro Wonderware Archestra IDE using logic sheets.
- Obour Underground Water Tanks | **Apr. 2022 – Feb. 2023**:
 - o Programing Schneider Modicon PLC to control and monitor three pumps of water tank station.
 - o Programing Schneider HMI with Vijeo Citect program to monitor and control the pump station.
 - o Designing of control panel contains Modicon PLC and HMI.
- Foxboro DCS Site Services | **May 2022**:
 - o ENPI Site Demitta
- PLC Package to Foxboro DCS Modbus Communication for BAPETCO, BED-3 Low-Low Pressure Compressor Project | **July 2022 – Sep. 2022**:
 - o Building up BDO for the Digital write tags.
 - o Building up BDO for the Analog write tags.
 - o Building up BDO for the Digital read tags.
 - o Building up BDO for the Analog read tags.
 - o Bulk generation for the created BDO in Foxboro Wonderware Archestra IDE.

- SCADA and Telecom for ALTajamouat 66/11 kV Substation | **Dec. 2021 – Sep. 2022**|:
 - Siemens S7-300 platform and WinCC SCADA package was used to locally display the substation parameters and produce operational reports, alarm lists, trends and management reports.
 - The RTU at ALTajamouat SS will be connected to CANRCC by using RUGGEDCOM RX1500 platform which provides the communication protocols (IEC 60870-5-101/104)
- Alexandria Petrochemical Company (APC) TMC Project | **Sep. 2021 – Jan. 2021**|:
 - Building Anti-Surge Control Library using AB software Studio 5000
 - Implementation of Anti-Surge Control loops for 2 compressors
 - FAT and SAT activities
- Quena Paper Industry Company | **Mar. 2021**|:
 - Making reverse engineering by extracting loops and logic from system backup using Honeywell Experion PKS software
- SOPC Plant | **Sep. 2020 – Nov. 2020**|:
 - Upgrading 3 Control processors in plant from IACC version to Archestra IDE version.
- ALMASA and MINISTRY FUEL SYSTEMS | **Oct. 2019 – Feb. 2020**|:
 - Motor Control Center (MCC) and Local Control Panel (LCP) cabinet design
 - PLC design for LCP and LCP wiring design.
- FERTIAL plant | **Jun. 2018 – July 2019** |:
 - Reverse Engineering for Existing Tricon system and Implementation in Foxboro Evo DCS System
- PDO (Petroleum Development of Oman) | **July 2019 – Sep. 2019** |:
 - Developing the Plant HMI from existing HMI displays and MIMIC and Building of Complex Loops
- SGP Plant | **Jun. 2019 – Aug. 2019** |:
 - Upgrading the project HMIs from Foxview to Control HMI.
- PDO SR CPP | **July 2019 – Sep. 2019** |:
 - Upgrading 96 Control processors in plant from IACC version to Archestra IDE version.
- Egyptian Petrochemicals Company (PVC plant) | **Jan. 2018 – Sep. 2020**|:
 - Engineering for Upgrade of Batch Process from 1986 Fortran based Control Systems with SPEC 200 Foxboro System to Foxboro Evo and Inbatch System together with Implementation of Plant Simulator using SFC and HLBL coding.
 - FAT and SAT activities.
- Building logic and HMI screens using SIEMENS PLC TIA Portal and WinCC for the following projects | **June 2015 – June 2017** |:
 - SCADA & PLC Programmer using Siemens PLCs for a USIFROID machine in SEDICO Pharmaceutical Company.
 - SCADA & PLC Programmer using Siemens PLCs for a machine in United Company (one of Elsewedy Electric Company).
 - Reverse Engineering for a machine in EGYTEC Company (one of Elsewedy Electric Company).
- Building logic and HMI screens using Hitachi PLC and GE FANUC iFix SCADA for the following projects | **Sep. 2008 – June 2015** |:
 - Elsewedy Cables Company
 - Feedmix Egypt Feed Industry
 - MAC Carpet
 - Misr Packaging Materials Company
 - AI-Wadi Feed Mill Company (Wadi Feed)
 - Eastern Company Egypt (Giza)

- Eastern Company Egypt (6th of October)
- El Rowad Co. for Foodstuffs Industry (ROFI)
- Egyptian International Pharmaceutical Industries Company (Eipico)
- Other small Size Projects

TRAINING
INSTRUCTOR

AUTOMATION PACKAGE, PLC & SCADA SYSTEMS COURSE INSTRUCTOR | 2011 – 2013

- Faculty of Engineering Cairo University
- Vacsera
- Arab Business Management Association
- Faculty of Engineering Fayoum University
- Mas Automation
- Egyptian Company for Engineering Training (EGY CET)

FOXBORO DCS SYSTEM TRAINING INSTRUCTOR | 2020 – 2023

- Training for control processor upgrading from IACC version to Archestra IDE version.
- Foxboro I/A (DCS) Hardware Configuration
- Foxboro I/A (DCS) training for Complex loops
- FoxDraw and FoxView for HMI
- Foxboro I/A (DCS) Alarm Configuration
- Historian and Report Package

SMART RING MAIN UNIT (SRMU) TRAINING INSTRUCTOR | 2020 – 2021

- Training for SRMU for more than 100 trainees.
- Hardware and communication for RM6
- Hardware configuration for Easergy T300 RTU
- Software and database Configuration for Easergy T300 RTU
- Troubleshooting for SRMU problems

OFF-SHORE SMART RING MAIN UNIT (SRMU) TRAINING INSTRUCTOR | FRANCE | GRENOBLE | MARCH 2022

- Training for SRMU for more than 100 trainees.
- Hardware and communication for RM6
- Hardware configuration for Easergy T300 RTU
- Software and database Configuration for Easergy T300 RTU
- Troubleshooting for SRMU problems

TRAINER FOR FOXBORO DCS ON-SHORE SITE TRAINING | BADR PETROLEUM CO. (BAPETCO) SITE | WESTERN DESERT REGION OF EGYPT | MARCH 2023

- Hardware overview/details and System Definition for DCS Foxboro.
- IA System Manager Software.
- Continuous Control Concepts for Digital and Analog Loops.
- Basic and Advanced Regulatory Control Concepts.
- Control Editors for Foxboro Evo Control Software.
- Building and Configuring Process Displays with FoxDraw.
- Trends / Environment Configuration and Alarm Notification Concepts.
- AIM Historian.
- Maintenance and Troubleshooting for DCS-Modbus communication packages.

TRAINER FOR FOXBORO DCS | SESE SCHNEIDER ELECTRIC | PETROBEL | AUGUST 2023

- Hardware overview/details and System Definition for DCS Foxboro.
- IA System Manager Software.
- Continuous Control Concepts for Digital and Analog Loops.
- Basic and Advanced Regulatory Control Concepts.
- Control Editors for Foxboro IACC Control Software.
- Building and Configuring Process Displays with FoxDraw.
- Trends / Environment Configuration and Alarm Notification Concepts.
- AIM Historian.
- Maintenance and Troubleshooting for DCS-Modbus communication packages.

TRAINER FOR FOXBORO DCS | ON-SHORE SITE TRAINING | EGYPTIAN PETROCHEMICAL COMPANY (EPC) | ALEXANDRIA | EGYPT | SEPTEMBER 2023

- Hardware overview/details and System Definition for DCS Foxboro.
- IA System Manager Software.
- Continuous Control Concepts for Digital and Analog Loops.
- Basic and Advanced Regulatory Control Concepts.
- Control Editors for Foxboro IACC Control Software.
- Building and Configuring Process Displays with FoxDraw.
- Trends / Environment Configuration and Alarm Notification Concepts.
- AIM Historian.
- Maintenance and Troubleshooting for DCS - Vijeo Citect HMI Modbus communication package.
- Maintenance and Troubleshooting for some site issues faced the engineering team in the site.

FREELANCING JOBS

SCHNEIDER ELECTRIC SIS TRICONEX SYSTEM ONLINE TRAINING INSTRUCTOR | ALGERIA | AUGUST 2023 - AUGUST 2023

- Principles of TRICON TMR Design.
- TRICON Hardware Components and Modules.
- Administrative Features.
- Develop the PT2x Application Program.
- Configure the Controller.
- Set Up TriStation Communication.

SCHNEIDER ELECTRIC VIJEO CITECT HMI DEVELOPMENT FOR LAJOIE SUBSTATION INDOOR SWITCHGEAR | BENDEL AUTOMATION AND CONTROLS INC. | CANADA | JULY 2023 - AUGUST 2023

- Designing screens for Schneider Electric HMI using Vijeo Citect application from substation SLD drawings and following customer HMI standard.
- Developing HMI database and communication Modbus list with PLC.

MODIFICATIONS IN PLC AND HMI PROGRAMS | BASRA GAS COMPANY | IRAQ | BASRA | MARCH 2023 - AUGUST 2023

- Modifications done for Cause-and-Effect logic in CompactLogix Allen Bradley PLC using Studio 5000 V34 remotely in Basra Site.
- Modifications done for Allen Bradley HMI panel using FactoryTalk View Studio remotely in Basra Site in order to close customer punch list.
- Preparation and creation of Operation Manual document for the HMI.

EDUCATION **PHD IN ELECTRICAL POWER AND MACHINE ENGINEERING** Fayoum University, 2019
 Voltage Swell Mitigation Using Advanced Flexible AC Transmission Systems Based on Evaluatory Computational Techniques

MASTER OF SCIENCE (M.SC.) IN ELECTRICAL POWER AND MACHINE ENGINEERING Fayoum University, 2015
 Analysis of Heat Transfer of Flat Cable System Using Finite Elements Technique

BACHELOR OF SCIENCE (B.SC.) WITH HONOR IN ELECTRICAL ENGINEERING Fayoum University, 2008

PROJECTS INVOLVING IN FACULTY OF ENGINEERING **SUPERVISION FOR FINAL B.SC. PROJECTS ON USING PLC& SCADA SYSTEMS IN SEQUENTIAL CONTROL FOR THESE PROJECTS:**

- Closed Loop Positioning Control for Wire Cutting Machines (INDAC Competition), (2010).
- Identifying and Controlling Materials using RFID and PLC (INDAC Competition), (2010).

REVERSE ENGINEERING PROCESS FOR A MACHINE IN "UNITED COMPANY FOR METAL PRODUCTS" (2013-2014).

LIST OF PUBLICATIONS **Yasser M. Aboelazm, Wael E. Wahba, and Mohamed A. Moustafa Hassan, "Mitigation of voltage swells in IEEE 30 bus and IEEE 57 bus systems using evolutionary techniques", European Journal of Electrical Engineering, Vol. 4, Pp. 499-516, 2018.**

Yasser M. Aboelazm, Wael E. Wahba, and Mohamed A. Moustafa Hassan, "Simulation of advanced STATCOM for voltage swell mitigation in large-scale test system based on swarm intelligence algorithms", European Journal of Electrical Engineering, Vol. 3, Pp. 253-266, 2018.

Yasser M. Aboelazm, Wael E. Wahba, and Mohamed A. Moustafa Hassan, "Modeling and Analysis of New Advanced FACTS Devices for Voltage Swells Mitigation", Twentieth International Middle East Power Systems Conference (MEPCON), Cairo, Egypt, 2018.

Jehan H. Shazly, Magdy. B. Eteiba, and Yasser.M. El-Sayed, "HYBRID ANALYTICAL TECHNIQUE THERMAL MODELING OF GAS INSULATED TRANSMISSION LINE", International journal of Heat and Technology, Vol. 32, 1-2, Pp.103-11, 2014.

SKILLS **Language Skills**

- ARABIC Tongue language
- ENGLISH fluent

Trainings & Skills Details

- Hitachi PLC course
- Siemens PLC Course
- Siemens WinCC Course
- Siemens WinCC Flexible Course
- Siemens Standard Drives Course
- Honeywell Training:
 - Experion PKS Overview
 - Fault Tolerant Ethernet (FTE)
 - Experion Stations and Consoles
 - Experion Server
 - Experion Controller and I/O
- Configuration Studio (Control Builder, Quick Builder, Enterprise Model Builder, System displays)
- Foxboro I/A (DCS) PPS Training:
- Foxboro I/A (DCS) Basic Skill Training
- Foxboro I/A (DCS) training for Complex loops
- Triconex Training:
 - o Building ESD systems and design software logic using Tristation
 - o Tristation Database creation and modification
 - o Function Block design and Testing
 - o Offline testing for logic using Emulator
 - o Hardware and communication Configuration
 - o Project reports generation
- Allen Bradley PLC & DCS training in KMT (Rockwell Automation Agent in Egypt)
- Smart Ring Main Unit (SRMU) training in Schneider Electric
 - o Hardware and communication for RM6
 - o Hardware configuration for Easergy T300 RTU
 - o Software and database Configuration for Easergy T300 RTU
 - o Troubleshooting for SRMU problems
- RTU Saitel Training in Schneider Electric
- ABB PLC & DCS training
 - o Compact Control Builder AC 800M 5.1.0
 - o ABB Workplace for SCADA system

Self-Learning with Practical Applications

- Matlab
- ANSYS
- AUTOCAD
- COMSOL
- TIA PORTAL
- Visual Basic
- ATP
- MS Office
- MS Visio

LINKS

LinkedIn: <https://www.linkedin.com/in/yasser-m-aboelazm-b0666b66/>

Upwork: <https://www.upwork.com/freelancers/~01eda3f646d8a314fd>

Freelancer: <https://www.freelancer.com/u/YasserAboelazm>