

ALIM HUSEYNOV

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As my strengths I would highlight my literacy in IT, Hardware and Software, Automation, Instrumentation & Control Engineering, C/C++ and MATLAB (Simulink) programming languages, Embedded systems, Microcontroller programming, Analog and Digital Systems, Design and implementation of Finite State Machine, SCADA, ICSS, DCS, PLC Programming (LLD, IL, ST, SFC), Siemens TIA Portal, CodeSyS, Mathematics and physics, Rockwell Studio Automation Software packages like RSlogix5000, RS Studio5000, Factory Talk Panelview, Oil & Gas production & exportation via pipelines. Skilled in building different industrial protocol-based networks such as Modbus, Profibus and Industrial Ethernet.

WORK PROJECTS

- Replace old ABB Prokonic PLC's to new Allen Bradley ones together with developing and testing program both for PLC and new HMI (completely from scratch). (May 2022).
- Developing new Allen Bradley PLC based control system and upgrading existing SCADA system for Purified Water Loop. (March 2022).
- Upgrading the SW and commissioning of Beijer HMI's for Escalator Control Panels at various London Underground Stations. (January 2022).
- Software upgrading, installing, commissioning, and troubleshooting of telemetry units - Ovarro Seprol S2000 for Southern Water Pump stations. (March 2022).
- Participated in many SCADA upgrade projects carried out by ABB at BP assets (BTC Pumping stations) – Like Alarm upgrades, Interlock Permissive, Overrides & Inhibits and many others. (2014-2017)
- Provided pseudo code to ABB engineers to implement alarm triggering for detecting forth start-up of Pumps within last hour – to prevent Starter Breaker overheating and burning. Participated and confirmed FAT. (March 2020).
- Design and develop PLC code (from scratch) for Siemens S7 1200 via Siemens TIA portal for Smart Grid Project. Mainly managed to control and optimize the power flow between Home user, Solar PV panels, Battery storage and Grid. Data acquisition, dynamic performance visualisation and remote control successfully implemented. (2018-2019)

WORK HISTORY

09.2022 – till now Field Service Engineer (I&C), Glensol, Azerbaijan

- Performing field inspections and oversees field measurements and data collection.
- Troubleshooting Solar Turbine package and replacing old remote IO modules which connected over Profibus.
- Performing package instrumentation and control systems and electrical systems inspection, planned and corrective maintenance.
- Performing instrumentation and control systems equipment calibration.
- Providing front line support to installation and commissioning activities; Conducting condition monitoring of equipment.
- Initiating & participating in continuous improvement initiatives in the assigned area of responsibility.
- Communicating with the customer regarding the condition of equipment and repair work scope.
- Evaluating component condition and repair options and performing a risk assessment for maintenance activities.

01.2020 – till now Lecturer, Khazar University, Baku, Azerbaijan

- Providing lectures and seminars on subjects like Control Systems, Digital Signal Processing, Communication Systems, Basic Electronics.

12.2021 – 09.2022 – Control Systems Engineer, Z-tech control systems, London, UK

- Develop, trial, install, test and commission control and automation systems with a focus on Wonderware, Rockwell, Siemens, and Schneider platforms.
- Participated in developing loop extension project for one of Local manufacturers which involved a lot of work regarding the Pneumatic Festo valves, Industrial Ethernet Network elements such as switches.
- Troubleshooting different faults occurring within Electrical and Control System of underground Escalators. Upgrading old obsolete ABB controller to new type AB PLC's and developed AB HMI software for controlling Vent Ozone Destructor system.
- Control over the full cycle of the project to interpret client design specifications and follow through to the solution.

11.2019 – 11.2021 Instrumentation and Control Systems Engineer, BP

- Perform detailed engineering for I&C related Engineering Queries (EQs) and handover to either maintenance or program execution teams, develop front end engineering and have input in basis of design reports for brownfield projects in the AGT region.
- Provides I&C expertise to other teams by performing and reviewing complex, or non-routine I&C calculations and analyses and to hazard identification and risk assessment processes. Relevant hazard identification and risk assessment processes, in performing incident investigations (IRIS) and defect investigations, to ensure that cyber security risk controls are in place on all regional automation systems and that associated barriers are proactively managed. Responsible for monitoring and performance of the management devices in region. Identifies measurement gaps, develops, and implements corrective plans.
- Develops and updates the technical content of Equipment Strategies based on equipment performance feedback and performs periodic review of CMMS, performs reliability analysis for instrument and control equipment using surveillance, maintenance and condition monitoring data, and trends performance metrics; Provides I&C expertise to delivery of regional actions. Leads on resolution of complex, multi-discipline technical issues where the dominant component is instrumentation and control equipment.
- Design and continuously improve C&A associated layers of protection; Liaison with BP's Main Automation Contractor; Initiate, review and approve I&C MOC content including Control System Change Requests (CSCR)

09.2018 – 03.2019 Control Systems Engineer, Smart Power Systems LTD, UK

- Developing smart grid and microgrid products and services for meeting the power demands of residential and commercial units in smart cities and communities.
- Finding the best technical solutions for control and communication systems for renewable energy systems: PV Solar Farms, Wind Farms, energy storage systems and electric vehicle charging infrastructure.
- Installation and programming PLC devices from Siemens, Delta and Hitachi, using software tools such as TIA Portal, WPLsoft, CodeSys and others.
- Designing and implementation of different Network Architecture and Communication protocols, especially Modbus RTU. Developing bespoke control system software for Energy Management Systems.
- Defining the technical requirements, organizing main communication network equipment necessary for interconnection and communication of control devices and configuring settings for LAN, WIFI and GSM/GPRS.
- Work within team consisting of clients and power systems engineers to test and commission final product setup. Troubleshooting and searching solutions for eliminating any abnormalities and incompliances within control architecture of new products in Microgrid and Electric Vehicle Charging.

09.2013 - 09.2017 Control Systems Technician, BP Azerbaijan, BTC Pipeline

- Oversee control desk consisting of 8 HMI computer screens and monitor the overall Process Control and Fire & Gas System for making sure that all operational parameters are within predefined limits and no alarms or faults exist in system. Gain awareness of system operating requirements and trends and suggest operating adjustment suggestions. Carry out initial investigation and troubleshooting once there are any faults or failures in Instrumentation and Control System. Preparation of historical trends of analog signal values and relevant statistical reports.

- Carry out and Lead Safety Override Risk assessments and organize application of software overrides.
- Close communication and working together with ABB Systems HealthCare Engineers for carrying out Optimizations and Software System upgrades. Conduct emergency operations for operational service and protecting station equipment.

08.2009 till 09.2013 Operations Technician, BP Azerbaijan.

- Operate, monitor, and control equipment and plant at Pump Station transporting 1 million barrels of crude oil per day. Monitor and control, start-up and shut down all production, utility and fire & gas systems and maintain records. Ensure all relative information is reported to the relevant people. (Offshore based) Monitoring efficiency of all plant equipment on offshore installation. Recording readings and data of plant equipment, understanding all equipment and instrumentation indications in the field, Executing the isolation of equipment according Permit to Work system

04.2007 - 08.2009 Trainee Pipeline Inspection Engineer, IICORR LTD

- Inspection across all the BP Caspian assets on a wide equipment, investigating various types of mechanical and fabric maintenance defects.
- Cathodic Protection Engineer for Petrofac and Maersk structure and pipeline inspections.

EDUCATION

- 09.2017-09.2018 Distinction in - MSc Electronics Engineering at De Montfort University, Leicester. Also awarded “Best Student in Electronics Engineering 2019”. The course is fully accredited by the Institution of Engineering and Technology (IET).
- 09.2014 - 07.2016 HND of Instrumentation & Control Engineering @ Teesside University
- 10.2007 - 12.2008 Basic Mechanical Engineering, City & Guilds. (www.icslearn.co.uk)
- 09.2004 - 11.2005 PC maintenance and repair specialist; Software technician, BMC
- 09.1999 - 06.2003 Bachelor; Finance and credit, Azerbaijan State Economic University

TRAININGS AND CERTIFICATIONS: (some highlights amongst many others)

- CCP143-Studio 5000 Project Development – Rockwell Automation, Catowice, Poland (August 2023)
- CompEX (EX01; EX02; EX03; EX04) - 2021
- ABB AC800 Programming and Maintenance - 2020
- Emerson DeltaV – Operation and Configuration – 2019
- Safety Instrumented Systems – 2016
- Practical Control System Fundamental ABB 800 (5 days - provided by ABB) - 2013
- Integrated Control and Safety System ABB 800 (3 days - provided by ABB) – 2012

OTHER SKILLS AND HOBBIES:

Multilingual: Fluent in English, both Turkish and Russian are natives.

As hobby I very like Digital Photography. Had very interesting shots via Canon EFS 17-55 on Canon7D.