

MUJGAN HUSEYNLI

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EDUCATION

George Washington University - MSc in Electrical Engineering

Washington, D.C.

GPA: 3.97/4.0

Jan 2023 - Dec 2024 (Expected)

Thesis: Design and Analysis of an FPGA-based Controller for GAN-based Three-Phase Inverters: Efficiency, Performance, and Reliability Optimization

Related Courses: Electric Power Generation, Power Distribution Grids, Power Electronics, Smart Power Grids, Power System Protection

University of Alcalá - Erasmus+ Exchange Program

Alcalá, Spain

Spent a semester on the Electronics and Mechanics Program

Jan - July 2020

Baku Higher Oil School - BSc in Electrical Engineering

Baku, Azerbaijan

GPA: 91.63/100

Sep 2017 - June 2022

Thesis: Design of Level Control Loop by Control Valve at Emerson Test Rig

Related Courses: Calculus, Physics, Digital Electronics, Analog Electronics, Control Theory, Process, Digital Signal and Data Processing, Industrial Computer Networks

EXPERIENCE

Honeywell Process Solutions

Charlotte, NC

Project & Automation Solutions (PAS) - Project Engineer I

Sep 2023 - Now

- Configured and conducted tests on Honeywell systems (Experion PKS, C300 PLC and FGS) and developed specifications for third party equipment and instrumentation.
- Contributed to the design/development of project plans and schedules.
- Reviewed, developed, and prepared project documentation and drawings (DCS, marshalling, Server, Network, System cabinet drawings, I/O allocation, System Architecture, Power and Heat calculation, loop drawings) following standards, best practices, and use of company engineering tools.
- Performed internal test and Pre-FAT, FAT, SAT activities of Honeywell control systems at Honeywell facilities or at customer site.
- Configured devices such as controllers, I/O modules, and control firewalls to communicate with each other and the rest of the system.
- Provided technical support and troubleshooting for control systems during installation and commissioning.

SOCAR Polymer

Baku, Azerbaijan

Junior Instrumentation and Control Engineer

July 2022 - Jan 2023

- Participated in plant automation modernization which increased operation efficiency by 20%.
- Delivered frontline installation support and led *Root Cause Failure Analysis (RCFA)* initiatives, reducing equipment failures by 15%.
- Coordinated with *EPCs* and *OEMs*, ensuring project deliverables met critical timelines.
- Wrote field inspection reports, maintaining compliance with regulatory standards.
- Participated in the configuration/testing of the *Integrated Control and Safety System (ICSS)*.

SOCAR Polymer

Baku, Azerbaijan

Instrumentation and Control Engineer Intern

Aug - Oct 2021

- Collaborated with team to diagnose and recalibrate faulty equipment, increasing machine uptime by 40%.
- Developed a pump overhaul alert system in *SEBOL* Programming Language for *Yokogawa Centum VP* PLCs, reducing downtime by 25%.

Emerson

Baku, Azerbaijan

Instrumentation and Control Intern

Jul 2021 - Sep 2021

- Gained expertise in *Rosemount* measurement technologies for temperature, flow, pressure, and level.
- Learned valve sizing and selection using *Fisher Specification Manager*.

- Developed proficiency in *DeltaV* distributed control systems, controller setups, communication protocols, and PLC programming.

HONORS AND AWARDS

- **ASPIRE 2023 Women's Workshop** Lisbon, Portugal
Boston Consulting Group *May 24 - 26, 2023*
 - Selected as one of the few participants - 10% acceptance rate.
 - Participated in team-based case solving and presented solutions.
 - Developed personal and professional skills through in-depth discussions with industry experts.
 - Networked with talented students and consultants.
- **McKinsey Forward Program Fellow** New York, NY (Remote)
McKinsey & Company *Dec 2022 - May 2023*
 - Selected with a rigorous 5% acceptance rate.
 - Developed leadership, problem solving, business, and digital skills, enhancing my professional versatility and impact across multiple industries.
- **Business Education for Engineers** Baku, Azerbaijan
BP(British Petroleum) & Baku Higher Oil School *May 06-23 2022*
 - A selective program with 10% acceptance rate among all national university students.
- **Presidential Scholarship** Baku, Azerbaijan
President of the Republic of Azerbaijan *Sep 2017*
 - Recognized by the head of state for ranking in the top %1 of national high school graduates.

PROJECTS

Assistive System for Visually Impaired People

- Implemented an assistive system for visually impaired users, using *Python* for backend development and *TensorFlow* for implementing deep learning models.
- Used *OpenCV* for real-time computer vision processing, enabling obstacle detection and path navigation.
- Integrated *GPS* modules for precise location tracking and *Arduino* for sensor data management, enhancing the system's responsiveness.
- Used *Google Speech-to-Text API* to convert voice commands to actions, providing a hands-free experience and increasing the system's accessibility and ease of use.

Safety Shower Water Refrigeration Package

- Designed and implemented a temperature control system for safety showers using *Siemens TIA Portal* and *SIMATIC STEP 7*.
- Using *Human Machine Interface (HMI)* design principles, enhanced operational efficiency and user experience.

Tank Farm

- Developed a comprehensive *SCADA* system for tank level management using *Siemens TIA Portal*.

SKILLS

Programming Languages	Python, C/C++, JavaScript, Matlab/Simulink
Frameworks and Libraries	Flask, TensorFlow, OpenCV, PyTorch, Scikit-Learn, NumPy, Pandas, SciPy, Matplotlib
Specialized Software	DeltaV DCS, Siemens STEP 7, Siemens TIA Portal, Yokogawa Centum VP DCS, AutoCAD/AutoCAD Electrical, TriStation, NI LabView, Intel Quartus Prime, Arduino, VHDL, Verilog
Tools	Git, L ^A T _E X, Bash
Languages	English, German, Russian, Turkish, Azerbaijani