

# MORTEZA, ABBASZADEH

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## EXECUTIVE SUMMARY

Experienced industrial automation engineer with 5+ years of experience in Siemens PLC programming, HMI/SCADA development, motion control, and industrial network integration. Skilled in consulting and upgrading industrial automation systems, helping companies modernize and optimize their control infrastructure. Proven ability to lead projects from design to implementation, improving efficiency and reducing operational costs. Passionate about cutting-edge automation solutions and continuous improvement in industrial environments.

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## FUNCTIONAL EXPERTISE

- **PLC Programming & Automation Systems** (Siemens S7-300, S7-1200, ET200SP CPUs, TIA Portal)
- **HMI & SCADA Development** (Siemens HMI, WinCC SCADA)
- **Motion Control & Drive Systems** (Servo Drives, VFDs, Electronic Gearing)
- **Industrial Networks & Communication** (PROFINET, Modbus RTU/TCP, Ethernet/IP)
- **Safety & Compliance** (Fail-Safe PLCs, Safety Integrated Systems)
- **Project Management**
- **Consulting & Upgrading Industrial Automation Systems**

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## PROFESSIONAL EXPERIENCE DEMONSTRATED

### Arab Industrial Group 2025-Present

Arab Industrial Group is a startup company with approximately ~10+ employees, specializing in the development of innovative machinery for the food, construction, and agriculture industries. The company has provided services to clients such as [Yas Polymer](#), [Astan Quds Razavi](#), and many others.

#### **Automation Engineer**

Industrial Automation Specialist in the commissioning of fully automated production machines.

- **Project Management:** Leads all post-contract client relationships, managing ~10 projects deployment of HMI and SCADA systems using Siemens HMI and WinCC SCADA across multiple automation projects. Collaborates with engineering teams to establish visualization standards and ensures real-time system monitoring and user-friendly interfaces for operators.
- **Industrial Network & Communication:** Designs and configures industrial communication networks using PROFINET, Modbus RTU/TCP, and Ethernet/IP. Manages seamless device integration and reliable data exchange while troubleshooting network issues to maintain high system availability.

### PARTLASTIC Industrial Group 2023-2025

An automotive parts manufacturer, comprising 22 subsidiaries with over 5173 employees and ~100 million in annual revenue, specializing in rubber and plastic components for vehicles. The company serves major automotive clients and distributors across Iran particularly [IKCO](#) and [SIPA](#).

#### **Automation Engineer**

A leading industrial automation solutions provider specializing in motion control and structured programming.

- **PLC Programming & Automation Systems:** Developed and optimized Siemens S7-1500 PLC programs using TIA Portal, implementing advanced structured programming techniques to improve systems modularity and maintenance. This resulted in 20% faster troubleshooting and debugging.
- **Motion Control & Drive Systems:** Configured Siemens servo drives and VFDs to enhance precision in automated robotic arms. Increased positioning accuracy by 15% and reducing cycle times in production.
- **Safety & Compliance:** Implemented fail-safe PLCs in manufacturing processes, ensuring compliance with **ISO 13849-1** machine safety standards and improving operator efficiency.

### Nafis Industrial Group    2018-2023

Nafis Group is one of the most innovative packaging companies in the food industry with 30 employees and ~\$1million in annual revenue that caters for clients from Oman, Qatar, and Saudi Arabia.

#### **PLC Programmer**

An industrial automation engineer specializing in designing and developing automated control and monitoring systems for manufacturing lines.

- **PLC & HMI Programming:** Designed and implemented Siemens S7-1200 PLC and customized HMI systems to fully automate and monitor production lines. This integration enabled real-time data visualization, precise process control, and online decision-making leading to a 25% increase in production efficiency and enhance operational reliability.
- **Consulting & Upgrading Automation Systems:** Provided continuous consulting and technical upgrades for industrial automation systems to sustain peak performance, precision, and long-term efficiency of manufacturing lines.

## **RELEVANT PROJECTS**

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**Electronic Board Design for Robot:** Participated as a board design team member at KNTU University of Technology. Designed the robot's electronic board using Altium Designer, contributing to the successful development of the robotic system. (2017–2018)

**Teaching Electronic Board Design and Arduino Applications:** Delivered training sessions on electronic board design and the use of Arduino boards for building educational robots, empowering students to successfully complete hands-on robotic projects. (2017–2018)

## **EDUCATION**

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**Master's in Mechatronics:** [KNTU University](#) (Tehran, Iran) (2013-2016)

**Bachelor's in Electrical Engineering:** [Sajjad University](#) (Mashhad, Iran) (2010-2013)

#### **Additional Professional Development:**

- Certificate in Fail Safe Industrial Automation Course ([Feb 2023](#))
- Certificate in Siemens Industrial Automation Comprehensive Course ([July 2022](#))
- Certificate in Technical committee member - RoboCup IranOpen ([2015](#), [2016](#), [2017](#))
- Certificate in Programming Siemens PLCs – IEEE Workshop ([October 2014](#))

## **OTHER RELEVANT INFORMATION**

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**Languages:** Persian (native fluency), English (proficient).

**Technology:** Start Drive, EPLAN, Altium Designer, Solid Works, MATLAB.