

# ALAA HAMAYEL

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## OBJECTIVE

Experienced Automation Engineer with over 3 years in food and tire plants, ASRS robotics, and advanced automation systems. Proficient in Siemens and Delta PLCs, motor drives, HMI, SCADA, Embedded Systems, and communication protocols. Possesses strong hands-on skills in mechanics, electric, and electronics work, with a solid background in machine maintenance and troubleshooting. Eager to leverage technical expertise and innovative problem-solving to drive impactful projects and achieve operational excellence in a dynamic organization.

## EDUCATION

**Bachelor of Electronics and Communications Engineering**, Kocaeli University – Turkey

2016 - 2021

## LANGUAGES

Arabic: Native, English: C1, Turkish: C2

## SKILLS

### Programming Languages:

Ladder Logic, C, C#, Python, VBScript.

### Programs and Platforms:

TIA Portal, WinCC, Solid works, Can open Builder, S7 applications, Altium Designer, Xamarin.Net.

### Communication Protocols:

Profinet, Modbus (TCP, RTU), Serial Communication (RS-485, RS-232), TCP/IP – UDP, Can Open.

### Hardware:

PLC, SCADA, HMI, Motors and Drives (Servo, Induction, Step, Brushless motors), Sensors and Actuators, Mechanical Parts, Electrical Parts, Electronic components.

## EXPERIENCE

### Automation Engineer – On Site

GENESIS Automation

Kocaeli -Türkiye

Jun 2022 - Jun 2024/ Mar 2025-Jan 2026 (First work experience. Left at Jun 2024, Worked at Sector Security. Resumed in Genesis Automation in March 2025 until Jan 2026.)

- Worked as PLC programmer for Tire, Food, Paint Plant and Warehouses with Smart racking systems.
- Led Pallet Racking Shuttle Machine Production from A to Z, including Mechanical and Electrical Assembly with our team, machine Programming, Testing and commissioning. Also, continuous research and development for the shuttles, in order to maintain best performance and quality in manufacturing.
- Developed new solutions for customers by using Industry 5.0 and 4.0 technologies.
- Participated in developing vertical ASRS shelving Robots.
- Systems commissioning and monitoring of systems.
- After sales technical support.

### System Integration Engineer

Sector Security Group Technology

Jul 2024 – Mar 2025

Ramallah-Palestine

- Leading Industrial Automation department, and planning projects
- Programming and designing PLC, HMI and SCADA for various projects.
- Upgrade systems driven by classic control panels to PLC-driven systems.
- Developing new industrial solutions in Production lines.
- Working on the Integration of Control systems in facilities along with low voltage systems.
- Troubleshooting and Maintenance.

### Lab Assistant

Kocaeli University- Automation lab

Oct 2020 - Jun 2022

Kocaeli - Türkiye

- Worked in various automation projects.
- Provided instruction for students in their projects.
- Developed Pick and Place Delta Robot for Plastic bottle separation supported by AI object recognition.