HAMZA ALFADLI

AUTOMATION ENGINEER

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SUMMARY

Electrical & Electronics Engineer specialized in Industrial Automation & Control Systems, with hands-on experience in Siemens PLCs, VFDs, and industrial electrical systems. Seeking an entry-level/graduate engineer position to contribute to automation projects while continuing to develop in SCADA, IoT, and advanced control technologies.

EDUCATION

B.Sc. in Electrical and Electronics Engineering   **Sep 2021 -Jun 2025**
Karabük University, Türkiye
- Graduation Project: Autonomous Medicine Delivery Vehicle using raspberry pi
- GPA : 3.14

PROFESSIONAL EXPERIENCE

Automation Engineer Assistant – PRECISE (Production Lines) & TRAVAC   **Jun 2024 - Aug 2025**
(Oil Purification Systems), Istanbul, Türkiye

- Supported the execution of full-scale industrial automation projects across production and packaging lines, as well as oil purification and recycling plants.
- Designed, assembled, and wired classic control panels integrating Siemens and Delta PLCs, VFDs, soft starters, and industrial sensors.
- Programmed and tested PLC logic using TIA Portal, including HMI configuration and sensor integration for process monitoring.
- Participated in on-site installation, commissioning, and troubleshooting, ensuring efficient system performance and minimal downtime.
- Collaborated with engineering teams to adapt automation solutions for different industries, gaining hands-on experience in both FMCG and process control environments.

Internship, SAM ELEKTRIK ELEKTRONIK – Industrial Systems   **Jun 2023 - Aug 2023**

- Electrical Panel Assembly & Industrial Wiring Assisted in the installation and wiring of industrial electrical panels, including circuit breakers, contactors, and overload relays.
- Participated in cable routing, trucking, and termination for motors and control systems in industrial settings.
- Gained solid understanding of classic control principles and the layout of motor control centers (MCCs). Strengthened hands-on skills in interpreting electrical diagrams and executing panel assembly under supervision.

Internship, EMISSA MEDIKAL URUNLERI SANAYİ – Maintenance   **Jun 2022 - Aug 2022**
Department

- Gained practical experience in preventive and corrective maintenance of medical equipment, including syringe pumps and ECG
- Developed troubleshooting skills for low-voltage electronic systems and enhanced understanding of circuit diagnostics

University Tutor
2021 – Present

- Tutoring engineering subjects (e.g., control systems, electronics, circuit analysis) for university students.

Translator
2021 – Present

- (Arabic–English – Turkish)

Sales & Customer Service Roles – ARCO Company
2019 – 2022

Worker→ MainDistributor →SalesManager

- Developed communication, negotiation, and sales management skills.

SKILLS

Tia Portal	Automation Studio	Control Panels
Ladder	AutoCAD	Sensors Integration
Structure text	Microsoft Office Suite	PV*SOL
C programming	AI tools	Communication & Negotiation Skills

LANGUAGES

Arabic (Native), English (Advanced), Turkish (Upper-intermediate), German (Basic)

CERTIFICATIONS

- LanguageCert ESOL International – B2 English (Communicator), High Pass
- TÖMER Turkish Language Certificate – Karabuk University
- MATLAB Simulink: Control Design Onramp
- First Aid Certificate – Karabuk University
- Entrepreneurship Certificate – Karabuk University

PROJECTS

Advanced Oil Pump Automation System
- Industrial PLC project with Siemens S7-1200, VFD, soft starter, and sensor integration (Analog
- and digital). Covers oil transfer, heating, and sequential multi-pump control. Includes schematics, programming, and full documentation using TIA portal for programming, automation studio for the circuits schematics and AutoCAD for designing.

Five-Stage Automatic Filling Machine
- Worked on a real industrial filling and packaging machine deployed in a manufacturing facility.
- The system consisted of five automated stages integrating servo motors for precision positioning, Siemens VFDs for dynamic pump control, SSD contactors for safe stage transitions, and analog/digital sensors for quality assurance.
- PLC logic was programmed using TIA Portal, with schematics designed in Automation Studio and AutoCAD Electrical.
- The machine handled full-cycle product filling and packaging, achieving significant improvements in speed, accuracy, and reliability on the factory floor.