Noah Aldaba

Automation & Control Engineer – Ongoing MSc. in Engineering

150 Charles St., Glasgow, UK (ability to relocate)

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Technical Skills

Possessing the technical knowledge and expertise to maintain, develop, troubleshoot and validate an entire plants automation systems.

- Experience with IEC 61131-3 standard PLC programming languages. LAD, STL, FBD, experience in Siemens (TIA Portal, PCS7), Mitsubishi (GXWorks2&3), LS (XG5000), Delta (WPLSoft) and enough knowledge in Allen Bradley (RSLogix).
- SCADA & HMI – Screen configuration and designing, PLC & DCS Interfaces. Data collection and storage (Simatic Manager, LabView).
- Servo Drive, VFD & Motor Control - Induction & Servo Motors, Torque, Speed & Position.
- Extensive knowledge in industrial protocols: OPC UA, Fieldbus, Modbus, Profibus and ProfiNet
- Strong instrumentation experience to install maintain and service industrial instrumentation, PID loops and calibration processes.
- Experience in Control Panel Designing (Power & Control wiring).
- PLC fault-finding.

Strength Points

- Troubleshooting skills: identifying and resolving complex technical issues.
- Excellent attention to detail - with a real focus on accuracy, work hard to ensure a right first time approach and have the ability to spot discrepancies and inaccuracies with ease.
- Analytical mindset: proficient in analysing data and system performance to make data-driven decisions.
- Ability to work well under own supervision.
- Safety awareness: strong understanding of safety protocols and risk assessment.

Education

➢ **Masters in Applied Data Science in Engineering**

Glasgow Caledonian University – Glasgow, UK (Jan 2023 – April 2024)

Focuses on:

- Deploy instrumentation as part of (IIoT) architectures, to store, manipulate and analyse data effectively and producing **Digital Twins**.
- **Predictive maintenance** (PdM) by the use of data analysis to identify operational anomalies and potential equipment defects, enabling timely repairs before failures occur.

➢ **5-Years Bachelor's Degree in Automation & Control Engineering**

Damascus University (Oct 2018)

Solid foundation in electrical, and control systems, specialisation in industrial automation systems.

Professional Experience

- **Automation Engineer** **Nov 2021 – Dec 2022**

  Damas Co. for Paper Industries – Amman, Jordan

  - Provided support for the entire plant's automation systems (PLCs, HMIs, Servo Drives, VFDs, and Sensors), including maintenance, development, troubleshooting, and validation of these systems in a compliant manner.
  - Designed and successfully implemented multiple industrial automation projects to meet job demands (some of the projects are listed below).
  - Conducted fault diagnosis and promptly repaired breakdowns to minimise downtime.
  - Designed and developed new HMIs to enhance user experience, replacing existing ones for smoother operation.
  - Documented and organised fault-fixing procedures to facilitate future troubleshooting, minimising downtime if similar issues arise again.
  - Developed and reviewed Preventive Maintenance Plans, standard operating procedures, commissioning protocols, design specifications, and drawings/diagrams.
  - Troubleshooted electrical equipment problems.
  - Analysed production data and utilised my comprehensive understanding of Siemens to produce codes to identify and resolve any issues, enhancing production.

- **Automation Engineer** **Sep 2018 – Aug 2021**

  VARNA for Food & Plastic Industries – Middle East, Damascus

  - Conducted regular maintenance of automation systems to ensure smooth operation and minimal downtime.
  - Proficiently created applications and conducted downloading/uploading of programs, establishing seamless communication with PLCs and HMIs.
  - Read and edited logic diagrams and wiring diagrams, ensuring accurate and effective process/control design for various projects involving PLCs, networks, drives, instrumentation, and control panels.
  - Demonstrated strong problem-solving skills in identifying and resolving complex technical issues.
  - Proficiently worked with different PLC brands and successfully managed their software (Configuration, Programming), including Siemens, Delta, Keba, Schneider, and Mitsubishi.
  - Designed and implemented Industrial Robots for In-Mould Labelling Systems, utilising close-loop Servo motion systems. Collaborated with design engineers to seamlessly integrate the robots for efficient IML operations with Plastic Injection Moulding machines.
  - Provided training and technical support to operators.

Projects

- Designed and implemented Automation Control System for a Servo Driven Logsaw Machine, Jordan (2022). Utilised Mitsubishi control unit and Servo motion system, achieving seamless and precise paper and tissue cutting operations while minimising downtime and errors.

- Designed and implemented Automation Control System for Sheet Metal Roll Forming and Cutting Machine, Jordan (2022). Employed Delta control unit and Omron encoders. Successfully calibrated encoders to ensure precise measurement and cutting of metal rolls at various sizes.

- Designed and implemented two Industrial Robots for In-Mould Labelling Systems, Syria (2019-2020). Utilised Delta and Keba control units along with close loop Servo motion systems. Collaborated with design engineers to plan and execute the integration of robots, enabling them to perform In-Mould Labelling operations seamlessly with Plastic Injection Moulding machines ensuring optimal performance and user-friendly interaction through the HMI interface.

- Designed and implemented an Automation System for a Plastic Blow Moulding Machine, Syria (2019). Utilised an LS control unit and HMI for control and monitoring. The project involved designing, programming, and integration to enhance the efficiency of the plastic blow moulding process.

Training/Courses

Certified online training and courses achieved through *coursera.com*

- Robotics: Computational Motion Planning - University of Pennsylvania
- Robotics: Mobility - University of Pennsylvania
- Robotics: Aerial Robotics - University of Pennsylvania
- Machine Learning - Stanford University
- Applied Machine Learning - University of Michigan
- Project Management - University of California