

Engineering Portfolio

Name: Hammam Abu Zaneh

Title: Mechatronics Engineer

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Graduation Project

Project Title: Smart Industrial Automation System

A university graduation project focusing on the development of an automated system integrating mechanical and control components to optimize industrial operations. The project combined mechanical design, sensor integration, and PLC control to achieve efficient, reliable automation performance.

Role: Mechanical Design & Implementation Engineer

- Designed and assembled all mechanical structures and moving components.
- Implemented alignment and mounting for actuators and mechanical joints.
- Selected materials and fabricated key mechanical parts.
- Collaborated with the electrical and programming team to ensure system integration.

Tools & Technologies: SolidWorks, AutoCAD, Pneumatics, Sensors, PLC



Professional Work Experience

Al-Jebrini Dairy Factory – Maintenance Technician (2024–Present)

- Performed preventive and corrective maintenance for dairy processing machinery.
- Troubleshooted electrical and mechanical systems in automated production lines.
- Applied safety and hygiene standards in accordance with industrial procedures.



TRICO Workshop – Machining & CNC Operations (2022–2023)

- Operated lathe, milling, and CNC machines for precision component manufacturing.
- Conducted machine setup, tool calibration, and post-operation quality checks.
- Assisted in mechanical maintenance of equipment and assembly tasks.



Skills Highlight: Mechanical Design | Troubleshooting | Preventive Maintenance | CNC Machining | PLC Basics | HSE Compliance