



Ameen Al-Natsheh

Mechatronics Engineering

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Professional Summary

Passionate and detail-oriented Mechatronics Engineer with expertise in robotics, automation, and mechanical design. Experienced in PLC programming, industrial control systems, and embedded systems, with hands-on experience from an internship at Jordan Phosphate Mines Co. (JPMC). Successfully designed and built an articulated robotic arm as a graduation project, demonstrating strong skills in CAD design, microcontroller programming, and system integration. Adept at problem-solving, technical troubleshooting, and team collaboration. Seeking opportunities to contribute innovative engineering solutions in a dynamic environment.

Education

- Bachelor's Degree in Mechatronics Engineering** **September 2020 – January 2025**
Tafila Technical University (TTU), Jordan

Graduation project

- Articulated Robotic Arm**
 - Designed and developed a six-degree-of-freedom robotic arm using Arduino Uno and servo motors (MG90S, MG945).
 - Utilized SolidWorks for mechanical design and fabricated components using 3D printing (ABS material).
 - Implemented Servo.H library in Arduino IDE to achieve precise motion control and calibration.
 - Conducted performance testing and system optimization, ensuring smooth operation and energy efficiency.
 - Demonstrated practical applications in industrial automation, research, and education.

Experience

- Trainee** **June 2024 – September 2024**
Jordan Phosphate Mines Co. (JPMC), Aqaba
 - Gained hands-on experience in industrial automation, working with PLC systems and Distributed Control Systems (DCS).
 - Inspected and maintained control valves, solenoid valves, and industrial sensors (flow, pressure, and temperature sensors).
 - Utilized electrical and pneumatic measurement tools to diagnose faults and optimize performance.
 - Participated in preventive and corrective maintenance procedures for critical industrial systems.
 - Developed troubleshooting skills by tracking sensor signals and resolving system errors within the DCS environment.

Student Member

- IEEE Tafila Technical University Student Branch** **October 2022 – December 2023**
 - Engaged in engineering seminars, workshops, and technical competitions.
 - Collaborated with peers on robotics and automation projects to enhance technical knowledge.

Certifications & Training

- PLC & Classic Control** – The Hope International Company
- Mechanical Design Principles** – INNOVATEX
- Photovoltaic (PV) Course** – Arkan Company
- Industrial Control-Engineering** Geniuses Company

Skills

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|-----------------------|-----------------------------------|--|
| - SolidWorks, AutoCAD | - Arduino IDE, Embedded System | - PLC Programming (Siemens, Allen-Bradley) |
| - MATLAB & Simulink | - DCS & Industrial Control System | - Robotics Control |
| - Microsoft Office | - Teamwork ability | - Team Management |
| - Problem Solving | - Motor Control and Calibration | |