Joshua Moser

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PROFESSIONAL SUMMARY

Enthusiastic and detail-oriented mechanical engineer with a strong foundation in robotics, automation, and system design. Skilled in CAD modeling, PLC programming, and integrating mechanical systems for manufacturing and industrial applications. I am eager to apply engineering principles to improve automation, enhance efficiency, and streamline processes in mechanical engineering projects. Known for my problem-solving abilities, critical thinking, and effective project management from concept to completion.

TECHNICAL SKILLS

- **Mechanical Design & Manufacturing:**Autodesk AutoCAD, Autodesk Inventor, Solidworks, SW Visualize, Machine Element Design, Additive Manufacturing

- **Automation & Robotics:** PLC Programming, MATLAB, C++, Mechatronic System Design, Festo Fluidsim

- **Mechanical & Electrical Systems:** Pneumatic Systems, Thermodynamics, Heat Transfer Mechanics, Epicor Inventory Management, Circuit Diagrams

PROFESSIONAL EXPERIENCE

Mechanical Design Engineer | Innovative Refrigeration Systems

Lyndhurst, VA (June 2024 - May 2025)

- Designed industrial refrigeration systems, focusing on automated condenser catwalks and glycol warming systems to improve efficiency.

- Performed thermal load calculations, selected pumps, and analyzed pipe flow to ensure optimal performance in large-scale cooling systems.

- Created detailed mechanical models using AutoCAD and Inventor, enhancing system functionality and ensuring smooth integration with existing infrastructure.

Project Lead - Automated Hydroponics System | Old Dominion University

Norfolk, VA (Jan 2024 - May 2024)

- Led a first-place winning team in developing an automated hydroponic system that utilizes carp for fertilizer generation.

- Designed and programmed automated systems for monitoring conductivity, adjusting pH, feeding fish, and cleaning tanks using PLC controls and sensors.

- Developed a sustainable, low-maintenance system aimed at maximizing calorie production with minimal human intervention, demonstrating a scalable approach to agricultural automation.

Low Voltage Electrical Install Technician (Intern) | Chesapeake Controls

Chesapeake, VA (Summer 2023)

- Installed sensors, wiring, and PLC devices to improve automation and control in industrial environments.

- Independently managed job sites, ensuring timely completion of electrical system installations and effective troubleshooting.

EDUCATION

Old Dominion University

Norfolk, VA (Graduation: May 2024)

Bachelor of Science in Mechanical Engineering Technology

Minor: Engineering Management

Focus: Mechatronics