Joshua Moser

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PROFESSIONAL SUMMARY

Mechanical engineer with a strong foundation in robotics, automation, and system design. Skilled in CAD modeling, PLC programming, and mechanical system integration for manufacturing and industrial applications. Passionate about leveraging engineering principles to optimize automation, improve efficiency, and streamline processes in robotics and advanced manufacturing environments. Adept at problem-solving, critical thinking, and leading projects from conception to implementation.

TECHNICAL SKILLS

- Mechanical Design & Manufacturing: Autodesk AutoCAD, Autodesk Inventor, Solidworks, Freecad, Fusion360, Slicing software, Basic CAM, Design of Machine Elements, Additive Manufacturing, Basic CNC machining.
- Automation & Robotics: PLC Programming, MATLAB, C++, Mechatronic System Design, Festo Fluidsim, Intro to Robotics, Automation & Controls
- Mechanical & Electrical Systems: Pneumatic Systems, Thermodynamics, Heat Transfer Mechanics, Epicor Inventory Management

PROFESSIONAL EXPERIENCE

Maintenance Technician 1 | Ingram content group– Chambersburg PA *(December 2025 – Present)*

- Performing maintenance tasks and problem analysis. Including mechanical repair, software troubleshooting, electrical diagnosis, and fabrication tasks.
- Implementing a pilot program for additive and subtractive manufacturing of machine components in efforts to alleviate supply issues and save on part costs.
- Utilizing 3d modelling and manufacturing skills to implement machine improvements, and reuse consumables to sustainably build new parts.

Mechanical Design Engineer | Innovative Refrigeration Systems – Lyndhurst, VA *(June 2024 – May 2025)*

- Led design efforts for industrial refrigeration systems, specializing in automated condenser catwalks and glycol warming systems to enhance system efficiency.
- Performed thermal load calculations, pump selection, and pipe flow analysis to ensure optimal fluid dynamics in large-scale cooling systems.
- Developed detailed mechanical models in AutoCAD & Inventor, improving system functionality and ensuring seamless integration into existing infrastructure.

Senior Project – Automated Hydroponics System | Old Dominion University – Norfolk, VA *(Jan 2024 – May 2024)*

- Project Lead for first-place winning team, developing an automated hydroponic system utilizing carp for fertilizer generation.
- Designed and programmed automated conductivity, pH adjustments, fish feeding, and tank cleaning using PLC controls and sensors.
- Created a sustainable, low-maintenance system to maximize calorie production with minimal human intervention—a scalable approach for agricultural automation.

EDUCATION

Old Dominion University Norfolk, VA *(Graduation: May 2024)*
Bachelor of Science in Mechanical Engineering Technology
Minor: Engineering Management Focus: Mechatronics