Logan J. Waldron

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OBJECTIVE

Mechanical engineering student with hands-on design and manufacturing experience seeking an entry-level design role

EDUCATION

The Ohio State University **August 2022 – May 2026**

B.S. Mechanical Engineering – GPA: 3.78

- Dean's List (6 consecutive semesters), OSU Engineering Scholar, Buckeye Solar Racing: Suspension Subteam
- Certified SolidWorks Associate (Mechanical Design) – Associate Level

PROFESSIONAL EXPERIENCE

General Motors **May – August 2025**

Quality Engineer Intern *Toledo, OH*

- Led quality improvement initiatives on two high-volume manufacturing operations, performing root cause analysis and gathering operator feedback to implement corrective actions that reduced rejects by 56% and 45%
- Implemented plant-wide visual workflows and digital tools to centralize defect communication, speed quality issue responses, and save 150+ hours annually by improving cross-team collaboration and data access
- Analyzed SPC trends, dimensional inspection data, and measurement outputs to provide actionable design feedback that improved part geometry, tooling accuracy, and process control stability

Worthington Steel **May – August 2024**

Mechanical Design Engineer Intern *Delta, OH*

- Designed 40+ parts and 3 full assemblies in SolidWorks and AutoCAD with appropriate GD&T; all assemblies were successfully implemented, significantly enhancing production efficiency and system reliability
- Increased outdoor coil storage capacity from 270 to 1,100 by redesigning racking layouts and optimizing floor space utilization within newly expanded storage zones
- Collaborated cross-functionally with engineering, maintenance teams, and external vendors to validate designs, refine manufacturability, and coordinated procurement efforts for timely implementation

Sauder Manufacturing Co. **May – August 2023**

Engineer Intern *Stryker, OH*

- Operated CNC and other manufacturing equipment, monitored critical process parameters, and recommended fixture and workflow changes that enhanced design for manufacturability and overall production efficiency
- Diagnosed assembly and tooling inefficiencies, resulting in a 25% increase in throughput per cycle; updated standard work procedures to support lean manufacturing practices and continuous improvement

ENGINEERING PROJECTS

Pickle Line Squeegee Roll Stand Redesign, *Worthington Steel* May – June 2024

- Led a full redesign of a critical line component using SolidWorks with appropriate GD&T, converting a rough AutoCAD sketch into a fully realized production-ready model
- Improved system reliability and efficiency, with the new design implemented immediately on the production line

Solar Car Suspension Redesign, *Buckeye Solar Racing* September 2024 – April 2025

- Redesigned the solar car's suspension to improve handling and reduce weight, boosting overall vehicle performance
- Worked cross-functionally with other sub-teams to ensure system compatibility and holistic vehicle performance

QUALIFICATIONS

Engineering and Design: SolidWorks (modeling & simulation), AutoCAD, NX 12.0, GD&T, Product Development
Analysis & Tools: MATLAB, Simulink, LabVIEW, Excel, Root Cause Analysis, Lean Six Sigma, DAQ Systems
Communication: Technical presentations, cross-functional collaboration, effective teamwork