# William Dowell

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## EDUCATION

The Ohio State University, Columbus, OH — Expected Graduation: May 2026
B.S. Mechanical Engineering — GPA: 3.62/4.00

**Relevant Coursework:**

- Engineering: Physics – Mechanics, Physics – E&M, General Chem, Statics, Dynamics, Mechanics, Thermodynamics, Systems, Machine Elements, Heat Transfer
- Mathematics: Calculus I, Calculus II, Calculus III, Statistics, Linear Algebra, Differential Equations

## EXPERIENCE

**Manufacturing Engineer Intern**
Sloan Valve Company (May 2025 – August 2025)

- Improved workplace safety by designing and implementing effective guarding solutions and ergonomic improvements.
- Enhanced manufacturing efficiency by analyzing and optimizing the workflow of a CNC machining cell for better productivity.
- Conducted a detailed workplace analysis to assess material flow, inputs/outputs, and cycle timing to ensure seamless integration with the lathe cell.

**Instrumentation Technician Intern**
Field Environmental Instruments (June 2024 – August 2024)

- Calibrated and maintained air, water, and soil environmental monitoring equipment to ensure accurate field data.
- Calibrated, repaired, and troubleshot issues with Testo 350 and JUM 3-500 gas analyzers used in environmental compliance testing.
- Worked full-time supporting field teams and ensuring equipment readiness.

## PROJECTS

**DV1 Mill Guarding**

- Worked cross-functionally with operators and maintenance to design improved guarding using 80/20 aluminum extrusions.
- Improved factory safety by adequately protecting the user from pinch points and flying chips.
- Designed and built a mirrored attachment for light curtains on a rotating die press.

**Air Motor**

- Machined a precision piston and cylinder for an air motor from raw stock.
- Developed precision machining skills on the lathe, mill, and drill press.
- Strengthened understanding of machining processes, tolerances, and terminology.

**Garage Door Sensor/Remote**

- Researched, programmed, and built a dynamic garage door sensor that adapts to different vehicle sizes.
- Assembled a functional prototype using Arduino components and sensors.
- Expanded programming and prototyping skills, integrating mechanical and electrical systems.

## TECHNICAL SKILLS

- **Programming:** MATLAB
- **Tools:** Excel, Visio, Inventor, Onshape, SolidWorks, Creo

## HONORS AND PERSONAL ACHIEVEMENTS

- AAPPL Commended Student (Spanish)
- 2023 Columbus Marathon Finisher