

## Patrick I. Boyle

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### EDUCATION

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**University of Wisconsin-Madison**

**Madison, WI**

**Bachelor of Science in Engineering Mechanics, August 2025, GPA 3.42/4.0**

Concentration in Aerospace Engineering, Certificate in Engineering Thermal Systems

Selected Coursework: Aerodynamics, Rocket Propulsion, Heat Transfer, Finite Element Analysis

### ENGINEERING EXPERIENCE

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**AM Mechanical**

**Downers Grove, IL**

**Project Management Intern, May 2024 – August 2024**

- Organized material procurement at jobsites nationwide.
- Communicated with onsite personnel and presented site progress reports to senior leadership.
- Coordinated client interactions and recorded desired changes to design deliverables.
- Designed and implemented support structures to facilitate the safe shipment and accurate placement of process piping in various applications

**Spectrum Associates**

**Milford CT**

**Engineering Operations and Sales Intern, June 2023 – August 2023**

- Streamlined company file management processes via AutoDesk Inventor, enhancing accessibility, editing efficiency, and workflow.
- Coordinated in-house demonstrations of laser marking machines, collaborating with vendors and internal teams to showcase capabilities.
- Designed and fabricated custom tooling for part testing using Autodesk Inventor and 3D printing.
- Investigated and verified company compliance with government cybersecurity regulations.

**UW-Madison COE Design and Innovation Labs**

**Madison, WI**

**Student Staff, March 2022 - April 2025**

- Developed skills in CNC machining, welding, and foundational manufacturing processes.
- Coordinated machine floor operations, equipment maintenance, and tool inventory.
- Trained groups of up to fifteen students on proper machine usage.

**SAE Aero UW Competition Team**

**Madison, WI**

**Cofounder, Vice President, Mechanical Lead**

- Coordinated meetings with RSO leaders in the College of Engineering.
- Recruited students and presented club information at meetings.
- Communicated with sponsors and established partnerships.
- Leads five teams of 5+ engineers in the CAD modeling, testing, and build an RC competition plane to specifications released by SAE Aero Intl.

## **SKILLS AND ACTIVITIES**

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FAA Part 61 Private Pilot completed December 2025

Software - SolidWorks, Ansys Mechanical APDL, Ansys Workbench, Microsoft Office

Languages - Python, MATLAB, R Studio

OSHA 10 Certification