

Patrick I. Boyle

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EDUCATION

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

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

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