

Matthew Steiglitz

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EDUCATION

Cornell University

BS Mechanical Engineering, August 2022 - May 2026

Current GPA: 3.76

Engineering Dean's List (5 semesters)

WORK EXPERIENCE

Pioneer Precision Parts, Intern, July 2025 - August 2025

- Designed and tested tool holder and fixture for sinker EDM machine, reducing part cycle time from 22 min to 14 min
- Designed and drafted process plan for improved spin test tooling, reducing setup times by half
- Designed fixture for flow testing parts, streamlining the testing process
- Reviewed and annotated process plans for power generation turbine parts
- Assisted with machining operations and setup, including precision grinding, wire EDM, sinker EDM, and CMM inspection
- Organized tool and fastener inventory, improving workflow

PROJECT EXPERIENCE

Cornell Design Build Fly, Mechanical Subteam Lead, August 2024 - May 2025

- Supervised and coordinated RC aircraft design, manufacturing, and testing process for 2024 AIAA DBF competition
- Managed subteam timeline and logistics
- Designed, manufactured, and tested landing gear and glider launch mechanism
- Recruited and trained new members, created instructional materials

Cornell Design Build Fly, Mechanical Subteam Member, September 2023 - August 2024

- Designed fuselage components in Solidworks leading to substantial weight reduction
- Integrated landing gear, motor, and other components into fuselage structure prioritizing weight savings, manufacturability, and strength
- Fabricated aircraft fuselage using laser cutting, 3D printing, and woodworking techniques

SKILLS

CAD, FEA/CFD Analysis: Solidworks, Ansys, Autodesk Fusion 360, Autodesk AutoCAD

Manufacturing: GD&T, machine shop training (mill, lathe, bandsaw), 3D printing

Computer: Microsoft Office Suite (Excel, Word, PowerPoint), technical writing

Programming Languages: MATLAB, Java, Python

Languages: French (classroom), Japanese (beginner)