

Matthew Glimcher



West Lafayette, IN



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Education

Purdue University Masters of Science in **Aeronautical and Astronautical Engineering**

Major Concentration: **Structures**

Minor Concentration: **Systems**

Thesis Advisor **Dianyun Zhang** at **Purdue CMSC**

West Lafayette, IN | Jan 2024 - Aug 2026

Purdue University Bachelor of Science in **Aeronautical and Astronautical Engineering**

Minors in **Materials Science and Engineering** and **Business Economics**

GPA: 3.3 / 4.0

West Lafayette, IN | Aug 2019 - Dec 2023

Private Pilot's License Received

Lakeland FL, | August 2019

Student Organizations: Purdue Lunabotics, Purdue AIAA Chapter, Purdue Archery Club, Purdue Hillel

Engineering Team Experience

Purdue Lunabotics Team

Jan 2020 - May 2023

Annual Submission to the **NASA Lunabotics Competition** with a team of 40 students

- Mentored Team Members in CNC toolpathing and design for manufacturing
- Lead the Suspension Development Team
- Designed team-wide standards to streamline the design process

Purdue Astronautics Senior Design

Jan 2023 - May 2023

Uranus Orbiter and Probe **Mission Proposal** with a team of 17, based on the 2023 decadal survey

- Selected Materials for and Designed a Manufacturable Spacecraft Structure
- Selected a comprehensive science instrument package based on the 2023 decadal survey
- Supported my teammates as our jack-of-all-trades problem solver
- Researched and recommended advanced technologies for further consideration

Research Experience

Research contract for Pratt and Whitney with my advisor

Jan 2025 - Present

Automated Fiber Placement

- Thermoplastic and Thermoset Materials
- Toolpath Planning and Analysis
- Tow Placement Simulation in Abaqus

Laminate Modeling and Impact Delamination

- Modeling Tapered Laminates in Abaqus using Python Scripting
- Modeling Delamination using Cohesive Elements
- Simulated Low Velocity Impacts according to ASTM D8101

Leadership Experience

Purdue Archery Club Safety Officer

Jan 2025 - Present

- Maintaining Club Facilities and Building New Equipment
- Maintain a Safe Environment and care for Injuries

Skills

CAD: Solidworks, Inventor, Siemens NX **Programming:** Python, C++, C

Simulation: Abaqus CAE, Abaqus Python, Numerical Optimization using Surrogate Methods

Office: Google Suite, Microsoft Office, Microsoft Teams, Project Management Software

Soft Skills: Team Leadership, Stakeholder Management, Presentations, Technical Writing