

# GRANT FELLOWS

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## EDUCATION

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**Bachelor of Science in Mechanical Engineering**, Purdue University

Expected May 2027

## SKILLS

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### Software Development

Python, Java, JavaScript, MATLAB; Flask, HTML, CSS;  
Data processing & modeling with NumPy, Pandas, SymPy, Matplotlib

### 3D Modelling & Simulation

Siemens NX, Autodesk Inventor, Fusion 360 (CAD/CAM/FEA),  
Simcenter/FEMAP (FEA)

### Fabrication

Manual mill/lathe; CNC mill (Tormach), 3D printing, laser cutting

## EXPERIENCE

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### OrbShip Fellow, Orb Aerospace

May 2025 - Aug 2025

*Grand Rapids, Michigan*

- Developed a Python library and webapp for improving the simulation of additive manufactured parts, allowing Orb engineers to better understand the stiffness and failure properties of printed parts before real-world testing
- Wrote extensive documentation and presented to Orb team on the use of this approach for simulating 3D prints
- Conducted 50+ ASTM tensile tests and data analysis to demonstrate validity of simulation in real-world parts

### Systems Engineering Lead, Purdue Lunabotics

Aug 2024 - May 2025

*West Lafayette, Indiana*

- Created and edited technical descriptions of robot processes, tracked and verified robot and system requirements
- Onboarded and managed new members
- Awarded 3rd place in Systems Engineering, 2nd place in Presentation and Demonstration, and 4th place overall out of 58 teams for 23-24 season.

### Autonomy Team Member, Purdue Vertical Flight Systems

Aug 2025 - Present

*West Lafayette, Indiana*

- Designing flight controller software for Purdue Vertical Flight Systems' entry into the GoAERO challenge

### Laser-Assisted Processing Researcher

Aug 2023 - May 2024

*West Lafayette, Indiana*

- Researched applications of laser-assisted processing to industrial decarbonization for Dr. Benxin Wu's Vertically Integrated Projects team
- Synthesized findings from over one hundred papers into a report and final presentation to inform further research by the lab

### FTC Robotics Captain, Eastside Preparatory School

Aug 2019 - May 2023

*Kirkland, Washington*

- Captained First Tech Challenge robotics team 8103 (Null) for 2021-2022 season. Lead hardware team for 2022-2023 season
- Designed, prototyped, and fabricated mechanisms for 4 years of game challenges and robots

## PROJECTS

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See [gwfellows.github.io/portfolio](https://gwfellows.github.io/portfolio) for a portfolio of my personal engineering projects, including;

- A GPS mount for a ship railings. Built for a captain's custom use case; parts are in active use today.
- An ergonomic electric guitar body built from 3 laser-cut aluminum plates
- A Python library for tree-based genetic programming, used to perform symbolic regression on datasets