

GRANT FELLOWS

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EDUCATION

Bachelor of Science in Mechanical Engineering, Purdue University

Expected May 2027

SKILLS

Software Development

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

3D Modeling 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

Autonomy Lead, Purdue Vertical Flight Systems

Aug 2025 - Present

West Lafayette Indiana

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

OrbShip Fellow, Orb Aerospace

May 2025 - Aug 2025

Grand Rapids Michigan

Developed a Python library and web app for improving FEM 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

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. Led hardware team for 2022-2023 season

Designed, prototyped, and fabricated mechanisms for 4 years of game challenges and robots

PROJECTS

See gwfellows.github.io/portfolio for a portfolio of my personal engineering projects, including;

A GPS mount for ship railings. Built for a container ship 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