

GRANT FELLOWS

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EDUCATION

Purdue University, West Lafayette, Indiana, Exp. Grad. May 2027
B.S, Mechanical Engineering, in Progress. 3.87 GPA, Deans List

SKILLS

- Programming Languages / Libraries: Python, Matlab, Java, JS/HTML/CSS, data processing with Python (numpy, pandas, matplotlib, plotly)
- Fabrication: CNC Milling (Tormach 1100M, Shopbot PRSalpha), 3D printing, Laser cutting
- 3D Modelling: Inventor CAD/FEA, Fusion 360 CAD/CAM, Seimens NX CAD

ENGINEERING EXPERIENCE

Systems Engineering Lead for Purdue Lunabotics August 2023 — Present

- Creating and editing technical descriptions of robot processes
- Scheduling and coordinating sub teams
- Onboarding and managing 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 August 2023 — May 2024

- Researched and prepared a report on applications of laser-assisted processing to industrial decarbonization for Dr. Benxin Wu's Vertically Integrated Projects team
- Read and synthesized over 100 papers on laser manufacturing and laser-assisted processes

FTC Robotics Captain, Eastside Preparatory School August 2019 — May 2023

- 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

EPS Fusor Team Member, Eastside Preparatory School August 2019 — May 2021

- Fabricated and assembled parts to assist with completing Eastside Preparatory School's long-running (6 year) project to build a working nuclear fusion reactor
- Documented the fusor's high voltage system in a wiki
- Designed, simulated, and implemented a current measurement device in order to better understand current draw from the fusion chamber

Independent Projects: See <https://gwfellows.github.io/portfolio/>

WORK EXPERIENCE

Camps Educator, Pacific Science Center Summer 2023 and 2024

- Instructed students from 3rd through 8th grade on a variety of STEM-related topics

Tech Intern, Eastside Preparatory School Summer 2022

- Maintained Eastside Prep's tech operations over the summer, ensuring all classrooms, computers, and networking equipment were functional