

Will Walters  
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## **Education**

**Purdue University College of Engineering**      Expected Graduation: May 2026

- Bachelor of Science in Aeronautical and Astronautical Engineering
- GPA: 3.90 / 4.00

## **Skills**

- CAD: Inventor, Onshape, NX, AutoCAD, SolidWorks
- Programming: MATLAB, Java, Python, C
- Analysis Software: XFLR5 (Airfoils and Wings), Free Flyer (Orbit Analysis)

## **Job Experience**

**Subaru of Indiana Automotive Inc.**      June – August 2025

*Manufacturing Engineering Intern – Plant Planning*

- Conducted feasibility studies for energy reduction initiatives by analyzing plant layouts using Excel and AutoCAD.
- Investigated potential plant modifications for potential vehicle model changes, production increases, and to improve efficiency and sustainability.
- Delivered weekly presentations to the team, summarizing research, estimates, and progress in clear, concise formats.

## **Project Experiences**

**Perseverance Rover Sample Collection**      August – Nov. 2023

- Planned out a future mission to retrieve NASA's current Mars rover, Perseverance, to retrieve rock samples and other valuable data about Mars
- Worked in a team of 5 to make orbital mechanics calculations, mass and payload calculations, and consider sizing constraints with existing technologies

## **Extracurriculars**

**Purdue SLING Graduate Research Club**      February 2025 – Current

- Model and analyze complex orbital and rotational dynamics of a lunar-orbiting tether system within the Circular Restricted Three-Body Problem framework
- Apply indirect optimal control for trajectory optimization and conduct linearized proximity operations near a rotating tether tip, deriving a Jacobian to enable efficient periodic orbit evaluation

**Purdue Club Lacrosse Team**      September 2023 – Current

- Compete in local fall matches and travel nationally for the full spring season in the Men's Collegiate Lacrosse Association (MCLA) Division I League.
- Develop teamwork, strategic thinking, and time management skills through rigorous training and competitive play.