

# Patrick Wargo

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## Education

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### Purdue University

West Lafayette, IN

*Bachelor of Science in Mechanical Engineering*

May 2026

- GPA: 3.56/4.0, Dean's List
- Relevant Coursework: Statics, Dynamics, Mechanical Design, Thermodynamics, Ordinary and Partial Differential Equations

## Engineering Design Project Experience

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### Purdue Solar Racing Club – Suspension and Steering Systems

West Lafayette, IN  
August 2023 – Present

- Establish basis for the design from work of previous teams, and come to a list of optimal measurements
- Used organizational methods such as house of quality and decision matrices to come to conclusion
- Researched and learned vehicle dynamics to optimize on-track efficiency for the car and reduce friction
- Designed components via Fusion 360 and tested their viability with Ansys to reduce weight where possible
- Manufactured components with 5 axis machining, lathe, manual mill, laser cutter, water jet and 3D printer

### Purdue University – Final Projects

West Lafayette, IN  
September 2021 – August 2023

- Project 1: Used Python to program an algorithm to have a robot autonomously follow a line whilst overcoming obstacles and delivering cargo.
- Project 2: Built the body of the robot using Lego Mindstorm parts and programmed the algorithm to navigate a maze autonomously while avoiding hazards. Dealt with sensors and handling messy data to use for navigation.

## Leadership and Work Experience

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### Purdue University Residences – Residential Assistant

West Lafayette, IN  
August 2023 – Present

- Mediate conversations between 10 different residents when conflicts emerge to encourage compromise
- Administrate floor gatherings once a week to enable 50+ residents to come together and build a community
- Act as a mentor for 50+ residents by providing resources for academics, social life, and mental health

### Purdue University – Teaching Assistant

West Lafayette, IN  
May 2023 – Present

- Reinforced student learning via assisting in the understanding of physics and python coding in office hours
- Troubleshooted technological errors in the classroom such as faulty code or Raspberry Pi issues

### Science Central – Education Specialist

Fort Wayne, IN  
May 2021 – May 2023

- Researched and designed a new exhibit for the museum and wrote itemized price estimates and purchase orders
- Presented to groups of up to 35 people twice a week, explaining complex topics in an understandable manner
- Lead camps of 20+ for children ages 5-9 to teach science in a particular field for a week, developing relations

### Repower Purdue – Founder/President

West Lafayette, IN  
November 2017 – January 2021

- Cooperate with Sierra Club and student organizations for events, while managing subcommittees
- Grew membership from 3 to 20 people over the course of 3 weeks

## Skills

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- **Software Experience:** Ansys, Siemens NX, Autodesk Inventor, Autodesk Fusion 360, Microsoft Office, Google Drive, Monday
- **Computer Programming Languages:** MATLAB, Python, Java, and C