

# Gabriel Kurfman

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## Education

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### Purdue University

West Lafayette, IN

Bachelor of Science in Mechanical Engineering

August 2022 – May 2026 (Expected)

- GPA: 3.79 / 4.00
- Dean's List & Semester Honors (every semester)
- Minor in Computer Science

## Experience

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### John Deere Reman

Springfield, MO

Manufacturing Engineering Intern

May 2025 – August 2025

- Designed and 3D-printed 115 paint masks for remanufactured engines to replace handmade versions.
- CNC-machined 20 shadow board trays to support 5S workplace organization of the new paint masks.
- Created Operator Method Sheets (OMS) to document the updated masking process.

### John Deere Gatorworks

Horicon, WI

Manufacturing Engineering Intern

May 2024 – August 2024

- Audited “touch-for-quality” (TQ) tasks on the Gator production line, eliminating 61 non-value-added TQs and saving 1.77 standard minutes per unit.
- Developed time standards, prepared a feasibility study, and proposed a new floor layout for the addition of a radiator subassembly to the Gator production line.

### Gonzalez Companies, LLC

Belleville, IL

Engineering Technician

May 2023 – August 2023

- Led the creation of a UAV land survey program to streamline field data collection.
- Drafted roadways, intersections, storm sewers, and sanitary sewers using AutoCAD.

CAD Technician

June 2020 – August 2022

- Conducted land surveys using Trimble GNSS equipment to support civil engineering projects.
- Drafted roadways, intersections, storm sewers, and sanitary sewers using AutoCAD.

## Proficiencies

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**CAD:** SolidWorks, Creo, NX, Fusion, AutoCAD

**PLM:** Windchill, Teamcenter, Aras Innovator

**3D Printing:** Prusa i3 MK3S+/MK4, Creality K1 Max/K2 Plus, LulzBot TAZ 6

**Machining:** Haas VF 4SS CNC mill, FoxAlien CNC router/laser, manual mill, manual lathe

**Welding:** Stick, MIG, Flux Core

**Programming:** C, C++, Python, MATLAB, HTML/CSS

## Certifications & Honors

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- FAA Remote Pilot Certificate *August 2022*
- OSHA 10-Hour Construction *June 2022*
- Eagle Scout Award *October 2021*

## Extracurriculars

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### **Purdue Space Program - NASA Student Launch Competition**

**Huntsville, AL**

Project Engineer

*June 2024 – Current*

- Coordinating technical integration between construction, payload, avionics, and R&D sub teams.
- Managing PLM system, part number assignment, and CAD standards.
- Presenting progress reports to NASA engineers during virtual design reviews.

Research & Development Team Lead

*June 2024 – May 2025*

- Founded R&D team to focus on multi-year projects improving Purdue's competition scores.
- Managed projects including airbrakes, experimental parachute system, and nose cone cameras.

Payload Team Lead

*June 2023 – May 2024*

- Coordinated and worked alongside 15 student engineers in construction of a deployable quadcopter.
- Led budgeting and decision-making for the 2024 payload quadcopter.

Payload Engineer

*August 2022 – May 2023*

- Designed camera arm and planetary gearbox components in SolidWorks.
- Facilitated manufacturing and 3D printing of parts.

### **Purdue Jazz Bands**

**West Lafayette, IN**

Trumpet Player

*August 2022 – Current*

- Perform in 4-8 non-profit jazz concerts per semester