

Gabriel Kurfman

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Education

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

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

CAD: SolidWorks, Creo, NX, Fusion, AutoCAD

PLM: Windchill, Teamcenter, Aras Innovator

3D Printing: Prusa, Creality, LulzBot

Machining: Haas CNC, FoxAlien Laser, manual mill, manual lathe

Welding: SMAW, GMAW, FCAW

Programming: C, C++, Java, Python, MATLAB, HTML/JS

Extracurriculars

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

Relevant Coursework

- WLDT 101: Introduction to Welding
- CS 24000: Programming In C
- CS 25100: Data Structures and Algorithms
- ME 26300: Design, Innovation & Entrepreneurship
- ME 32300: Mechanics Of Materials
- ME 37500: Measurement And Control Systems II
- ME 44400: Computer-Aided Design & Prototyping
- ME 57000: Machine Design II