

Nicholas Wojcik

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Summary

Aspiring Mechanical Engineer with internship experience in systems and mechanical engineering, skilled in CAD, MATLAB, and FEA. Demonstrated ability to apply engineering principles through internships at International and Tech Global, including a senior design project developing a two-wheel berry harvester. Eager to leverage problem-solving and teamwork skills to contribute to innovative mechanical systems and product development.

WORK EXPERIENCE

International

May 2025 - Aug 2025

Systems Engineering Intern

Lisle, IL

- Created a comprehensive Safety Case Report and delivered a technical presentation, demonstrating the ability to communicate complex engineering concepts
- Conducted a comparative analysis of competitor safety philosophies, which informed internal design decisions and supported strategic improvements
- Supported data acquisition, logging, and upload of Controller Area Network (CAN) bus signals, facilitating integration, validation, and performance analysis in autonomous trucking consumer product development

Tech Global Inc.

May 2024 - Sep 2024

Mechanical Engineering Intern

Elgin, IL

- Utilized SolidWorks to create 3D assembly instructions to improve onboarding training efficiency
- Designed a thermally insulated test environment for large touchscreen systems, applying principles of heat transfer and material selection to ensure controlled testing conditions

Tech Global Inc.

May 2022 - Dec 2023

Production Technician

Elgin, IL

- Leveraged mechanical skills to assemble and test touchscreen monitors used in casinos and gaming machines
- Identified and documented defective components, reporting findings to the quality manager resulting in fewer defective units

The Scion Group

Jan 2025 - May 2025

Experience Team Member - Part Time

Madison, WI

- Delivered clear and engaging community and amenity tours, building strong interpersonal communication skills and the ability to explain complex information to diverse audiences
- Executed marketing and engagement initiatives with a results-driven mindset, demonstrating initiative, adaptability, and cross-functional collaboration
- Assisted management in brainstorming and coordinating resident engagement activities and addressing maintenance issues, showcasing problem-solving, teamwork, and hands-on support

EDUCATION

University of Wisconsin - Madison

Sep 2022 - May 2026

Bachelor of Science, Mechanical Engineering; Certificates: Mathematics, Physics

- **GPA:** 3.0/4.0
- **Achievements:** Pi Kappa Alpha - Beta Xi Member
- **Coursework:** Heat Transfer, Fluids, Polymers, Dynamics, Python, Calculus, Finite Element Analysis, Metal Cutting

KEY PROJECT

Senior Design Project - Two Wheel Black Currant Berry Harvester

University of Wisconsin - Madison

Madison, WI

- Worked with team of 4 to design mechanical harvester for small market U.S. farmers
- Conducted field research to ensure ergonomic, efficient and cost-effective design
- Used CAD and Machining to fabricate and redesign frame for evolving design specifications
- Delivered a final presentation to faculty and peers, communicating decisions, trade-offs, and project outcomes

SKILLS & INTERESTS

- **Technologies:** Computer-Aided Design (CAD), MATLAB, Finite Element Analysis (FEA), Solidworks, Python, R (Programming Language), Engineering Drawings, Siemens NX, CAN Bus, Computer Aided Manufacturing (CAM), CNC Mill, Machining, Kinematics, Autodesk Inventor, GD&T, G-Code
- **Skills:** Problem Solving, Communication, Teamwork, Easily Adaptable
- **Interests:** Roller Coasters, Biking, Weightlifting, Traveling, Cooking, Sports