

THOMAS KALA

STUDENT/INTERN

 8290 W. Orchard St.
West Allis, WI 53214

 (708) 979-0730

 thomaschiefs@gmail.com

 [linkedin](#)

SKILLS

Software

- ❖ SolidWorks, MATLAB, LoggerPro, Ansys, LabVIEW, Simulink, EES, Word, PowerPoint, Excel, etc.

Machining

- ❖ Bandsaw, Drill Press, Mill, Lathe, Welding, Soldering, 3D Printing

Soft Skills

- ❖ Leadership, Communication, Dedicated, Patient, Hard-Working, Attention to Detail

LANGUAGES

Fluent: English

Conversational: Czech, Polish

PERSONAL PROJECTS

Custom RC Vehicle Build | 2025 – Present

- Built and wired a fully functional RC vehicle using a 4-pole brushless motor, ESC, servo, custom battery tray, and specialized gearing
- Applied physics, math, tolerancing, and machining to component selection, fit, and assembly
- Developing a SolidWorks-designed custom frame to improve strength, adjustability, and versatility

EDUCATION

MARQUETTE UNIVERSITY, Milwaukee, WI
Bachelor of Science in Mechanical Engineering

Expected Graduation- MAY 2027

WORK EXPERIENCE

ENGINEERING INTERN

Climate Solutions, Franklin Park, IL

MAY 2025 – AUG 2025

- Created and standardized ISO-compliant machine manuals, setup guides, and operating procedures for multiple automated manufacturing systems
- Worked directly with technicians and controls engineers to diagnose, troubleshoot, and resolve equipment and process issues on the production floor
- Trained operators on newly documented machine procedures, contributing to approximately 20% increased window production and 30% increased patio door production through improved consistency and efficiency

WAREHOUSE WORKER

Climate Solutions, Franklin Park, IL

JUN 2024 – AUG 2024

- Performed glazing, assembly, and packaging of windows in a production environment while meeting quality and safety standards
- Operated and interacted with multiple machines to verify part quality, ensuring proper tolerances, fit, and finish
- Maintained a strong focus on product quality, consistency, and throughput while supporting on-time production goals

SERVICE PORTER/CAR DETAILER

Grand Subaru, Bensenville, IL

JUN 2022 – AUG 2022

- Detailed customer vehicles under tight time constraints, ensuring high standards of cleanliness, finish quality, and customer satisfaction
- Supported service technicians by safely draining engine oil into designated oil drain pans in compliance with shop safety and environmental procedures
- Transported customers to and from desired locations, providing professional customer service and supporting efficient service department workflow.

ACTIVITIES/CLUBS

SAE (Baja) Suspension Co-Lead, Milwaukee, WI

AUG 2023 – Present

- Lead the design, manufacturing, and validation of suspension components (A-arms, H-arms, shocks) for an off-road competition vehicle
- Apply SolidWorks, MATLAB, and ANSYS to analyze designs while accounting for manufacturing constraints and tight tolerances (± 0.003 in)
- Manufacture, assemble, and inspect components using shop equipment, ensuring dimensional accuracy, structural integrity, and repeatability
- Drive continuous improvement through testing, troubleshooting, and iterative design changes based on real-world performance data