

Lucas Kyllmann

lkylmann@wisc.edu | (847) 767-8135 | lakylmann.com

EDUCATION

University of Wisconsin-Madison | Madison, WI

May 2027

Combined Master and Bachelor of Science

Major: Mechanical Engineering

- GPA: 3.69/4.00
- NCEES FE Mechanical Exam, September 2026

WORK EXPERIENCE

Sub-Zero Group, Inc. | Fitchburg, WI

January 2025 – August 2025

Test Engineering Co-Op

- Partially designed and fully built a \$200,000+ leak test station for production line testing 12 steam cavities per hour
- Wired and built a \$100,000+ industrial computer referencing electrical and pneumatic schematics
- Designed 2 separate specialty seal tools used by operators on the manufacturing line
- Investigated production leak detection feasibility with thermal imaging, contributing to product quality during assembly

Silgan Containers | Oconomowoc, WI

June 2024 – August 2024

Equipment Engineering Intern

- Engineered a pneumatic punch die press capable of embossing 400 steel ends per hour, accelerating accurate prototype iteration of low-volume runs
- Cut lead time for preliminary embossing of steel ends from 2+ weeks to 3 days by implementing 3D-printed tooling
- Processed 14 engineering change notices and requests using Inventor and AutoCAD, maintaining accurate production drawings and models

Sanmina Co. | Pleasant Prairie, WI

June 2023 – August 2023

Assembly Technician

- Soldered surface-mount (SMD) components onto PCBs and built PCB assemblies strictly adhering to SOPs
- Improved existing assembly procedures and aided in developing workflows for new products

Vail Resorts | Wilmet, WI

December 2022 – Present

Jr. Alpine Race Coach (Seasonal)

- Coach 100+ racers, aged 10-18, yearly improving ski racing fundamentals for WIJARA sanctioned competitions
- Manage groups of 6 to 12 athletes daily, set racecourses, and enforce safety protocols

EXTRACURRICULARS

Badger Fly | UW-Madison | Madison, WI

Mechanical Lead

September 2023 – Present

- Engineered the carbon fiber tube and plate frame for a fully autonomous, 7kg quadcopter capable of flying above 40 mph while maintaining good resonance characteristics
- Coordinated and aided in the development of magnetic payload bundle pickup and dropping mechanisms
- Generated wiring diagrams conforming to the 2526 DBVF rules verifying the safety of the quadcopter
- Calibrated PID's of a 8 kg tilt rotor VTOL drone, achieving stable flight leading to the "Most Precise Payload Drops" award at VFS's 2425 DBVF competition

Wisconsin Alpine | UW Madison | Madison, WI

Alpine Ski Racer

September 2023 – Present

- Competed in USCSA regional races leading to Wisconsin Alpine competing in Nationals 3 years consecutively

SKILLS & INTERESTS

Software: SolidWorks, Autodesk Inventor, AutoCAD, Python, MATLAB, LabVIEW

Technical: Soldering, CNC Machining, 3D-Printing, Sheet Metal, Electrical/Pneumatic Schematics

Interests: Building/Racing FPV Drones, Skiing, Volleyball