

Michael Wywrocki

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I am a junior at Cornell University looking for a 2026 summer internship in mechanical engineering where I can apply and expand my engineering skills and make a positive impact for the organization and community.

EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Bachelor of Science in Mechanical Engineering, Minor in Aerospace Engineering

Expected graduation December 2026

SKILLS

Software: Microsoft Office Suite, Google G-Suite, MATLAB, Python, AutoCAD LT, Autodesk Fusion 360 (or equivalent tools), C/C++

Machines: Laser Cutter, 3D Printer, ZUND, CNC, Lathe, Mill, Drill Press, Band Saw

PROJECTS

Maker Machine Throughput Increase

Summer 2025

- The Maker is an industrial grit web manufacturing machine that produces products from anti slip grit tape to skate board grit tape
- Researched all the Maker's limiting factors for max capabilities like motor power, roller torque and stress, dyne levels, etc.
- Presented all findings to engineering team and performed 3 trials at 11% throughput increase increments
- Evaluated trial findings based on operator feedback, machine scrap performance, and material quality checks
- Successfully discovered and approved 33% throughput increase capabilities leading to a \$134,000 per year of savings
- Documented success and findings for the team to expand on future capabilities of the Maker
- Created an automatic excel sheet calculator to find the temperature of the web throughout the oven when drying adhesive

Coating Line Curl Comparison

Summer 2025

- Products on one coating line machine have been receiving more customer complaints about product curl than the other machine
- Conducted research on impacts of humidity, vapor pressure, tension, bearing drag, and temperature differences on web curl
- Created a heat transfer calculator to find raw material temperature decay time for matching vapor pressure
- Collected and analyzed data for facility temperature and humidity conditions, bearing temperatures, and machine tension controls
- Documented findings and recommendations to share with team and discussed execution of recommendation
- Estimated \$11,500 per year savings

WORK EXPERIENCE

Engineering Intern at Jessup Manufacturing Company, Lake Bluff, IL

May - August 2025

- Lead various engineering projects focused on web coating and manufacturing process improvements on efficiency and capabilities
- Conducted research, testing, and trials on multiple web coating and web converting machinery
- Collaborated in multiple weekly meetings with engineering team sharing project research, findings, and recommendations
- Saved Jessup Manufacturing an estimated \$213,000 per year based on project completions, discoveries, and recommendations
- Performed final intern presentation to company CEO and leadership team to share most valuable project accomplishments

Additional EXPERIENCE

Cornell University Varsity Swim Team Member

- Devoting an average of 25 hours per week to training, conditioning, practices, meetings, travel and meets
- Multiple team volunteering experiences from helping at local elementary schools to setting up community events
- Developed concentration, strong work ethic, and perseverance to meet personal and team goals
- Led tours of facilities to prospective student-athletes and their families

HONORS & ACTIVITIES

Cornell University, College of Engineering Dean's List

Varsity Swim Team, Cornell University, 2023-Present

National Honor Society, Adlai E. Stevenson High School, 2019-2023

RELEVANT COURSES

Mechanics & Statics of Materials, Thermodynamics, Physics II: Mechanics & Heat, Electromagnetism, Physics III: Waves & Oscillations, Linear Algebra, Differential Equations, Calculus I, II, III, Mechanical Design, Dynamics, Fluid Mechanics, System Dynamics, and Mechatronics.