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.