James Thomforde

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EDUCATION

Cornell University, College of Engineering   Ithaca, NY
Bachelor of Science in Mechanical Engineering GPA 3.2   *May 2027*
Relevant Coursework: Systems Dynamics, Fluid Mechanics, Mechanical Design, Object Oriented Programming

RELEVANT EXPERIENCE

AVS US Aerospace   Lansing NY
Junior Spacecraft Engineer   July 2025 - August 2025
- Adapted and integrated a Python-based automation system, deployed within a tmux session, to operate in AVS's satellite communication infrastructure
- Developed and validating mission test sequences using .robot files to simulate real operations ahead of deployment on AVS's active satellites
- Debugged execution issues in a live hardware-in-the-loop test environment

Morgan Stanley – The Aegis Group   Ithaca NY
Business Development Intern   June 2025 - August 2025
- Built and qualified a pipeline of 800+ leads for a $400M nonprofit-focused investment portfolio
- Designed and implemented a lightweight CRM system for nonprofit prospecting, enabling live pipeline tracking, automated follow-up scheduling and AI integrated outreach, eliminating manual processes

Conamix   Ithaca, NY
Cell Design Intern   February 2025 - August 2025
- Assembled lithium-sulfur pouch cells and 3D printed components for experiments
- Correlated gas evolution and volume change with cycle life to identify cell degradation trends
- Drafted and presented a technical report with the findings and data to the company

New York Consortium For Space and Technology   Ithaca, NY
Business Development/Engineering Intern   June 2024 - March 2025
- Contributed to the development of a 6-DOF satellite simulator focused on propulsion subsystem testing
- Developed an automated Java web scraper and GUI to monitor 240+ aerospace RFPs for partners
- Built a web scraper and database to identify and qualify partnership leads in New York
- Designed and implemented an inventory management system for a private aerospace firm

LEADERSHIP & PROJECTS

Ski Safety Alert System   New York
Project Lead   August 2022 - June 2023
- Led development team for autonomous skier safety system with Raspberry Pi and custom hardware

Delta Upsilon Fraternity, Cornell University Chapter   Ithaca, NY
Recruitment Chair   March 2024 - Present
- Coordinated over $25,000 in event funding for several 100+ person events and managed logistics, budgeting, and execution

Sexual Assault Prevention Society, Cornell University   Ithaca, NY
Finance Chair   January 2025 - Present
- Managed a $5,000 budget and coordinated keynote speakers and event spending.

RELEVANT SKILLS

Skills: CAD(Fusion 360, Inventor, SolidWorks), 3D printing, Python, Java, Linux, Git, Multisim, Voltaiq, General Machining, CNC Machining, Welding, Laser Cutting, 3D printing
Interests: Running, Golf (Handicap: 0.2), Basketball, Chess