

Hannah Mekky

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

August 2022-May 2026

Bachelor of Science in Mechanical Engineering

Relevant Coursework: Statics, Dynamics, System Dynamics, Mechanics of Materials, Fluid Mechanics, Mechanical Design, Material Process Manufacturing, SpaceFlight Mechanics, Heat Transfer, Physics I, II, III

University of Sydney Study Abroad, Sydney, Australia

Spring 2025

WORK EXPERIENCE

HuFriedy Group – *Manufacturing Engineering Intern*

Dec 2024 - Jan 2025 | June 2025 - Aug 2025

- Collaborated with the manufacturing engineering team to diagnose and resolve machinery and fixture issues in dental device assembly
- Designed and implemented process improvements that enhanced operator efficiency and production reliability
- Conducted research and testing to optimize assembly flow, contributing to smoother operations and reduced bottlenecks

Greengard Inc. Engineering – *Engineering Intern*

Jun 2024 - Aug 2024

- Utilized AutoCAD to develop boundary, topographic, and site development plans across multiple concurrent projects
- Coordinated with clients to gather requirements and ensure accurate technical documentation aligned with project needs
- Supported engineering teams by preparing detailed drawings and contributing to efficient project delivery

Bewley Applied Turbulence Research Lab – *Undergrad Researcher*

Sept 2022 - May 2023

- Prepped and aided in experiments to analyze compressible turbulent flow behavior using hot wire anemometry and high-speed optical techniques in a wind turbine

Mekky Media Relations – *Intern*

Jun 2022 - Aug 2022 | Jun 2023 - Aug 2023

- Researched to support publicity campaigns and strengthen outreach strategies
- Drafted press releases and promotional materials to enhance media visibility
- Built and maintained relationships with media outlets to expand campaign reach

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Breakfree Cornell Dance Crew – Co-President

2025-present

- Directs a competitive, student-run dance organization of 40–45 members, competing in professional competitions across the region
- Manages a 14-member executive board, ensuring effective operations and team cohesion

Cornell Club Soccer – Co-Captain

2023-present

- Leads a student-run competitive soccer team, coordinating training, game plan, travel, and competition logistics for 25–30 members
- Guides the team to repeated qualifications at regional and national tournaments

Society of Women Engineers – Middle School Outreach, DiverSWeTy, Junior Girl Scout

2023-present

Cornell Engineering Ambassador

2025-present

ADDITIONAL SKILLS

MatLab • Python • Solidworks • Autodesk Fusion 360 • AutoCAD • Leadership • Communication • Collaboration • Conflict Resolution • Teamwork • Critical Thinking • Project Management