

Milly (Yihan) Miao

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EDUCATION

Cornell University | College of Engineering

B.S. in Mechanical Engineering

Ithaca, NY

Expected May 2028

Cumulative GPA: 3.6

Relevant Coursework: Statics, Thermodynamics, Mechanical and Electromagnetic Physics, Differential Equations, Linear Algebra, Calculus III, Computer Science, Operational Research

Campus Involvement: Kappa Phi Lambda (Public Relations Chair, Banquet Chair, Sisterhood Chair)

Northview High School

Transfer student from Windermere High School (Windermere, FL), High School Diploma

Duluth, GA

Aug 2021 - May 2024

Cumulative GPA: 96 / 100 | **Honors:** High Honors (2020-2024)

School Involvement: NHS Messenger (Managing/Multimedia Editor), National Art Honors Society (President), Future Business Leader of America (Vice-President), National Honor Society (Historian)

TECHINICAL AND WORK EXPERIENCE

Cornell University Unmanned Air Systems

Air Frame Sub-Team Member

Ithaca, NY

Sept 2025 – Present

- Designed wing internals on new aircraft, specializing in rib spacing into the internal design based on calculations
- Researching rib optimization for efficient load transfer to spars while limiting weight before Critical Design Review
- Determining simulations to test the wing internals' strength and factor of safety using Ansys

Cornell AutoBoat

Mechanical Sub-Team Member

Ithaca, NY

Feb 2025 – Sept 2025

- Ensured boat protected internal electrical systems through physical testing; noted improvements to have for next year
- Worked on new electrical integration design; researched on improving wire organization; adjusted to include new boards
- Tested many carbon fiber layups to find the strongest boat material while keeping weight as a factor for overall design

J's Engineers and Contractors

Intern

Duluth, GA

Sept 2023 – Dec 2023

- Redesigned website by adding features and improving visual appeal for functionality and enhancing user experience
- Studied engineering drawings and presented the design intent to clients; addressed any discrepancies within projects
- Estimated construction costs, invoiced vendor payments, and confirmed product transactions for project developments

University of Central Florida

Research Assistant under Prof. Bo Chen

Orlando, FL

Jun 2023 – Jul 2023

- Advised in continuous advancement of applying Nuclear Magnetic Resonance in biomolecule structure identification
- Prepared plasmid extracted from stock bacteria to allow for large production of proteins to acquire substantial samples
- Developed expertise in the operation and application of Nuclear Magnetic Resonance spectroscopy for sample analysis

Kylin Realty

Marketing Summer Intern

Orlando, FL

Jun 2021 – July 2021

- Assisted in outlining and writing a real estate curriculum to launch an online pre-licensing course for realtor students
- Studied the processes for becoming a realtor and learned operational aspects of the real estate industry by shadowing
- Collaborated with marketing team to determine advertising; sent newsletters; designed and created social media contents

PROJECTS

Remote Controlled Car

July 2025

- Designed and created the CAD model of the chassis and suspension system of an RC car using Fusion360 software
- Optimized structural geometry for weight reduction and component integration through design iterations
- Fabricated parts through 3D printing; assembled those and bought parts together and tested the final prototype

SKILLS & INTERESTS

Technical Skills: SolidWorks, Fusion360, Ansys, Python, Microsoft, Illustrator, InDesign, Lightroom, Mandarin Chinese

Awards: National Scholastic Press Association Marketer of the Year and Story of the Year, Georgia Scholastic News Association Superior Illustration and News Story Superior, FBLA Conferences for Business Plan (1st at Regionals, 4th at State)

Interests: Traveling; Fashion; Design; Drawing/Painting; Baking and Cooking; Photography; Journaling; Vintage Shopping