Kandice Lu

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Education

Cornell University – College of Engineering **Aug 2022 – May 2026**

B.S. in Mechanical Engineering – GPA: 4.083/4.3, 3.908/4.0 *Ithaca, NY*

Dean's List: Fall 2022–Spring 2025

Relevant Coursework

- Aeronautics, Propulsion of Aircraft, Heat Transfer, Thermodynamics, Fluid Dynamics, Material Mechanics, System Dynamics, Mechatronics, Finite Element Analysis

Skills

- **Technical Skills:** Computer-Aided Design, FEA, Structural Analysis, DFMA, GD&T
- **Software:** Ansys, Solidworks, Fusion 360, STAAD.Pro, LabVIEW
- **Programming Languages:** MATLAB, C/C++(Arduino), Python

Engineering Experience

Team Lead, Fabrication Lead **Sep 2023 – Present**

Cornell Steel Bridge Project Team *Ithaca, NY*

* Lead a team of 30 students to design and fabricate a 20 foot steel bridge to withstand a 2500lb load with minimal deflection in an annual competition
* Optimize structural efficiency by analyzing varied geometries and section properties, improving projected costs from the initial design by 15%
* Designed member connections in Fusion 360 assessed connection safety factors through finite element analysis to ensure structural integrity under expected loads
* Assess structural performance by conducting load testing & collaborating with teammates to swiftly troubleshoot issues, resulting in significantly improved deflection of the bridge under expected loading
* Create shop drawings for bridge components, and follow drawings to manually machine over 200 bridge components

Undergraduate Researcher **May 2025 – Present**

ZT Group *Ithaca, NY*

* Developed and optimized procedures for fabricating potential polymer-based thermal interface material samples
* Characterized thermal properties of polymer samples to inform experimental changes to subsequent samples

Coursework Projects

Mechatronics: Robot Competition **March 2025 – May 2025**

- Design and program an autonomous cube-collecting robot within given size and budget constraints
- Effectively troubleshoot and resolve mechanical, electrical, and programming issues

Introduction to Aeronautics: Glider Project **Sep 2024 – Dec 2024**

- Designed a slow flying balsa glider from scratch using CAD, performing calculations to find the wing, tail, and body geometry necessary for balanced flight
- Tested and rebalanced constructed glider as needed to achieve desired speed and stability, achieving 5th place in the final competition for longest flight time

Work Experience

Finger Lakes Reuse **June 2025 – Aug 2025**

Administrative Project Intern *Ithaca, NY*

* Researched the viability of and assisted in the implementation of transitions to new report creation and price management systems
* Assisted chief officers in creating and organizing various strategic documents, databases, and reports