

# Naomi Naranjo

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## EDUCATION

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### Cornell University, College of Engineering

Expected Graduation May 2026

Bachelor of Science, Mechanical Engineering and Computer Science

Ithaca, NY

- Relevant Coursework: Dynamics, Mechanical Synthesis, Discrete Structures, Object-Orientated Programming, Computer Systems Programming, Analysis of Algorithms, Functional Programming, Mechanics of Materials

## EXPERIENCE

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### Symmetry Laser

Jun 2024 – Aug 2024

Mechanical Engineering Intern

Davis, CA

- Designed an 8ft custom caliper using SolidWorks for precise measuring of laser-cut hypo tubes to support high precision production and streamline quality control
- Created and printed 3D models for jigs and fixtures to enhance manufacturing workflows and test new systems
- Leveraged rapid prototyping for development and testing of an automated vision inspection system, including integrating third-party components into a broader system design
- Utilized hands-on fabrication skills including machining, 3D printing and assembling PVC systems in constructing an acid cleaner to automate post-processing

### Cornell School of Mechanical and Aerospace Engineering

Aug 2024 - Present

Thermodynamics Teaching Assistant

Ithaca, NY

- Leading weekly recitations sessions of 20+ students and one-on-one office hours to reinforce core concepts and facilitate group problem solving

### Cornell Nanoscale Science and Technology Facility

Jun 2023 – Present

Undergraduate Researcher

Ithaca, NY

- Leveraging Atomic-Force and Scanning Electron Microscopy to analyze wafer patterns and improve process reliability
- Conducting analysis on e-gun evaporation rates to optimize thin film deposition of cobalt and titanium on silicone wafers
- Developing Ion Milling and Reactive Ion Etching recipes to fabricate phase-shift masks with precise depth control
- Optimizing exposure parameters for Deep UV lithography to enable fabrication of features with consistent width and pitch

### Cornell Center for Materials Research

Sep 2022 - May 2023

Educational Outreach Student Assistant

Ithaca, NY

- Managed lending library of experiments to provide teachers across the country with lesson plans and materials
- Helped develop hands-on lessons to teach students about physics and chemistry, in English and Spanish

### Citigroup Technology, Inc.

Oct 2022 - Jul 2022

Information Technology Intern

New York, NY

- Worked with Enterprise Infrastructure Operations and Technology Team to provide traders with technical support
- Used Python scripts to analyze network and user data and anticipate client issues

## EXTRACURRICULARS

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### Cornell AutoBoat

Feb 2024 - Present

Robotics and Actuation Member

Ithaca, NY

- Designing a skee-ball shooter using a flywheel and gravity-operated feeder system
- Collaborating with the other sub-teams to integrate the software, electrical, and mechanical components of the boat
- Created robotic arm design and manufactured components, using finite element analysis (FEA) to verify structural integrity under various loads

### Big Red Adaptive Play and Design Initiative

May 2023 - Present

Engineering Committee Member

Ithaca, NY

- Rewiring battery-operated devices and toys to allow for greater accessibility for individuals with motor impairments
- Organizing the donation of accessible toys and devices to the Ithaca special needs community

### Association of Latino Professionals for America (ALPFA)

Feb 2023 - Present

Finance Committee Member

Ithaca, NY

- Managing budgeting and fundraising to support chapter function and provide professional development workshops for Latino students at Cornell

## SKILLS

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- Programming Languages:** Java, Python (OpenCV, Flask, NumPy, Pytorch), MATLAB, SQL, JavaScript, C/C++
- CAD & Analysis Software:** Onshape, Fusion360, AutoCAD, SolidWorks, CREO, ANSYS
- Languages:** Spanish (Native Speaker)