



Vanessa Morales

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Greater Chicago Area / Ithaca

EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2026

Bachelor of Science, Mechanical Engineering

GPA: 3.22/4.00 Dean's List spring 2025

Relevant Courses: Mechanical Synthesis; MATLAB; Discrete Structures, Statics & Mechanics of Solids; Dynamics; Thermodynamics; Object-Oriented Programming & Data Structures; Differential Equations for Engineers; Linear Algebra; Mechanics of Engineering Materials; Fluid Mechanics; Mechatronics

ENGINEERING EXPERIENCE

Snap-on Industrial, Kenosha, WI, *Custom Tools Engineering Intern*

May 2025 - August 2025

- Designed custom tool solutions for large corporate customers
- Modeled complex tool geometries using SOLIDWORKS, and produced detailed 2D manufacturing prints to send to technicians
- Iterated and tested prototypes for an original tool storage product, and presented to the vice president of industrial sales for national rollout

Cornell HAPPI Lab, Ithaca, NY, *Undergraduate Research Assistant*

March 2025 - Present

- Aided in a research project exploring the connection between movement and vibrotactile perception
- Fabricated housing for wearable vibrotactile feedback device, to be worn by participants during the study
- Debugged and tested code used to automate experimentation

Snap-on Incorporated, Kenosha, WI, *Information Technology Intern*

May 2024 - August 2024

- Solved critical technical issues within the corporate environment, while enforcing and practicing cybersecurity protocols
- Collaborated with a team of 3 service analysts to support all departments of Snap-on headquarters
- Managed hardware inventory, fulfilled internal orders, and imaged computers with custom corporate software

LEADERSHIP EXPERIENCE

CU EMPower, Cornell University, *Mentor*

September 2024 - Present

- Guided first year students in their adjustment to college
- Set up time management and study strategies for students to excel in rigorous courses and extracurricular activities
- Met with mentees monthly to provide support and advice on various university related topics

Office of Inclusive Excellence- Engineering, Cornell University, *Simmons Scholar*

September 2022 - Present

- Inducted by Diversity Programs in Engineering into a select group of 35 class of 2026 underrepresented students identified as having exceptional future promise
- Remain in good standing by achieving a minimum gpa of 3.0, attending regular special advisory meetings, networking events, and skill-building workshops

CAMPUS INVOLVEMENT

Society of Women Engineers Member, **Knit with Care Club Member**, **CU EMPower Mentor**

SPECIALIZED SKILLS

Programs: MATLAB, Fusion360 CAD, SOLIDWORKS

Foreign Languages: Spanish