

# Esmeralda Bernal-Martinez

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## EDUCATION

### CORNELL UNIVERSITY, College of Engineering

Ithaca, NY

Candidate for Bachelor of Science in Mechanical Engineering, Minor in Business

Anticipated Graduation May /2028

Relevant Coursework: Spatial Visualization and Thinking for Engineers, Microeconomics, Application of Operations Research

### DOWNTOWN MAGNETS HIGH SCHOOL, Engineering Magnet

Los Angeles, CA

High School Diploma, Valedictorian, International Baccalaureate Diploma

Graduation June/ 2024

## EXPERIENCE

### BRIDGE TO ENTER ADVANCED MATHEMATICS (BEAM)

Los Angeles, CA

Teaching Assistant / Ambassador,

Summer 2025

- Selected for a competitive sponsored role to represent this non-profit, preparing and delivering a professional presentation on teaching experiences to our donors, including Hudson River Trading and Jane Street Capital.
- Mentored middle school students from underrepresented backgrounds by providing academic guidance in advanced math topics (combinatorics, number theory, graph theory).
- Assisted a USC Mathematics professor in teaching advanced math topics by guiding students through problem-solving, offering individualized feedback, and supporting a collaborative classroom culture.

### THRIVE SCHOLARS

Ithaca, NY

Campus director/ Scholar

April / 2020-Present

- Selected to serve as a peer leader and liaison between Thrive Scholars, university campus, and national office to strengthen scholar support networks. Build relationships with a cohort of scholars through regular outreach (coffee chats, check-ins, resource sharing)
- Plan and execute academic, social, and wellness events per year. Manage event budgets and submit detailed proposals and reports.
- Selected for a 6-year college access & professional development program for high achieving, underrepresented first-generation talent.

### UCLA RIORDAN SCHOLARS

Los Angeles, CA

Team Manager

September 2022 - May/2024

- First-place winner in the 2024 Real Estate Competition; second-place winner in the 2023 Stock Market Competition.
- Attended monthly sessions, developing presentation, teamwork, and analytical skills through hands-on business case studies.

### DMHS ROBOTICS

Los Angeles, CA

Historian/ Member

June /2021 - August/2023

- Fundraised \$1,875 by selling sweets to purchase tools and materials.
- Built and programmed robots for annual competitions, winning 1st place out of 15 teams in the school district.
- Managed the club's social media presence, recruiting new members by promoting events and sharing updates on activities and achievements.

## Projects

### COURSEWORK PROJECT: Spatial Visualization and Thinking for Engineers

Summer 2024

- Strengthened spatial reasoning and 3D visualization skills through targeted training and practice in a civil engineering context; gained hands-on experience with CAD design tools.
- Collaborated with a team to create a detailed CAD model of a bridge and researched how spatial visualization techniques are used in the industry, presenting findings using examples from scientific publications and professional sources.

### YMCA Community Food & Care Package Campaign

June 2025

- Help start up a Campaign to help the families of ICE raid victims facing financial insecurity and fear of being targeted.
- Applied project management skills to reorganize logistics setup, ensuring timely package distribution.
- Promoted to lead volunteer role, overseeing workflow, task delegation, and team coordination for 10+ volunteers.

## Extracurriculars

### UNITED IN HARMONY

Ojai, CA

Event organizer, Fundraiser, Camp Counselor

February 2022 - August 2024

- Spearheaded annual fundraising efforts, raising \$400+ per year through bake sales and organizing large events, including a Thanksgiving dinner and Christmas toy drive, to support camp operations and provide resources for underprivileged children.
- Developed strong organizational and project management skills by overseeing events and creating donor outreach strategies.
- Volunteered as camp counselor for 3 years, leading summer and winter camps for children from low-income communities, building communication and leadership skills by managing camper activities, and fostering a supportive cabin environment.

### KAPPA DELTA

Ithaca, NY

Co-lead of Social Media Committee

May 2025 - Present

- Collaborated with committee members to create and maintain a content calendar across different platforms. Design graphics, captions, and campaigns that increased follower interaction during recruitment and philanthropy events.

## SKILLS & INTERESTS

- Skills: CA Seal of Biliteracy (English & Spanish), CAD
- Interests: Marathon Training, Jewelry Making, Nail Art, Community Service, Journaling, Robotics
- Campus Involvement: SHPE Cornell, CU Empower, Kappa Delta, Mexsa, Cornell Tradition Fellow, Yerba Mate ambassador