

Christopher Miranda Soto

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EDUCATION

Cornell University, College of Engineering

Ithaca, NY

Bachelor of Science in Mechanical Engineering

May 2027

- GPA: 3.87
- Awards and Honors: Hispanic Scholarship Fund Scholar, Church at Litchfield Park Scholarship Recipient
- Relevant Courses: Data Science for Engineers, Python for Engineers, Differential Equations, Linear Algebra, Multivariable Calculus, Statics and Mechanics of Solids, Thermodynamics, Fluid Mechanics, Dynamics

TECHNICAL EXPERIENCE

Air Products and Chemicals, Inc.

Houston, TX

Estimation Engineer

June 2025 - August 2025

- Performed data validation and labor rate calculations by analyzing plot plans and integrating contractor inputs into ASPEN software to support precise cost modeling.
- Spearheaded a self-directed project to build and enhance Excel-based tools for tracking historical cost estimates against contractor bids, improving the accuracy and efficiency of future cost forecasting.
- Developed applied knowledge of thermodynamic cycles and heat integration in large-scale gas processing systems through engagement in technical reviews and engineering presentations.

AguaClara Cornell Engineering Project Team

Ithaca, NY

Ram Pump Engineer

February 2024 - Present

- Designed, tested, and helped optimize the AguaClara Ram Pump, an electricity-free water pumping system, and traveled to Honduras to assist in its physical installation and evaluation.
- Presented key findings on water treatment optimization to cross-functional teams, contributing to improvements across 24 AguaClara treatment plants serving over 95,000 people across Central America.
- Coordinated with team members to ensure proper setup and functionality of an experimental treatment apparatus, including managing equipment calibration and responding to any technical challenges during experiments.
- Developed Python algorithms to analyze spring forces, deflection, and stress using statics-based mathematical models.

COMMUNITY ENGAGEMENT & LEADERSHIP

World Help Through Technology

Palawan, Philippines

Digital Literacy Team Facilitator

July 2024 - August 2024

- Engaged with local communities by providing digital literacy workshops and implementing technical improvements in computer labs, addressing educational and technological barriers while increasing technology availability in economically challenged regions.
- Collaborated with local organizations to address project needs and manage quality issues, ensuring smooth operations and positive community interactions in a variety of cultural settings.
- Pioneered a successful fundraising initiative by forging partnerships with key contributors to secure over \$50,000 from diverse donors, providing the resources to deliver 30 computers and support digital literacy programs in local schools.

SKILLS & INTERESTS

Skills: Python, Excel, Matlab, Autodesk Fusion 360, Spanish (Native), Stress Analysis, Leadership, Analytical, Creative, Problem Solving, Team Collaboration, Quick Learner, Excellent Verbal and Written Communication Skills

Extracurriculars: CRU Music Team Lead, Ignite Music Team Lead (600+ people), Cornell Mariachi, Calvary Chapel Pianist, Volunteer at Second Wind Shelters for the Homeless, Intramural Soccer, Salsa Pa'lante Dance Club, SHPE

Interests: Piano, Salsa, FC Barcelona, Asian Food, Mariachi, Gamelan, Cinematography, Apple Juice