

Victor Jaciel Nolasco Perez

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Education

University of California, Berkeley - Mechanical Engineering

Class of 2029

Skills and Interests

Technical: AutoCAD, Rhino 3D, SAP2000, Fusion 360, Excel, PowerPoint, Raspberry Pi, Arduino

Programming: Python, Matlab

Interpersonal Skills: Positive Leadership, Conflict Resolution Spanish (fluent), Chess (1450 ELO)

Relevant Coursework

Introduction to Computer Programming and Numerical Methods through MATLAB, Linear and Differential Algebra, Introduction to Data Science through Python, Physics 7A – Mechanics, Calculus 1,2

Technical Projects

Smart Waste Sorting System — CAD Lead

UC Berkeley, CA — Spring 2026

- Developed smart waste sorter using a trained image-classification model to sort items as trash or recycling
- Led **CAD** modeling, fitment refinement, and mechanical assembly across multiple design iterations
- Integrated an Arduino control system with two servo motors to direct items into the correct compartment
- Implemented an infrared sensor to detect object placement and trigger the sorting sequence in real time

Replit – Analyst

Berkeley, CA — Fall 2026 – Present

- Engineer a **full-stack MVP** for nonprofit serving **400K+ students worldwide**, developing frontend, backend APIs, authentication, and database architecture for a live alumni pilot.
- Develop a **Speaker Bureau & Opportunity Engine** using **semantic search, embeddings, and automated tagging** to make alumni responses searchable profiles and help users with relevant opportunities.
- Design and analyze **2 product pilots with 80–100 users**, measuring user friction, task completion, drop-off, and **2–4 week retention** to guide product and engineering improvements.

Portable Bluetooth Speaker Build — Design / Electrical Lead

Berkeley, CA — Spring 2026

- Engineered a speaker system with dual full-range drivers, Bluetooth amplifier, rechargeable battery
- Designed the enclosure in **Fusion 360**, optimizing dimensions, speaker placement, and structural fitment.
- Created electrical wiring diagrams mapping battery power, amplifier outputs, and charging input
- Evaluated voltage, current, and impedance compatibility using Ohm's Law to have a safe DC power source.

Competition Team – Design Lead

UC Berkeley, CA — Fall 2025

- Modeled and evaluated structural designs for annual seismic competition using **Rhino 3D** and performed load analysis using **SAP2000**; analyzed compression, tension, and joint stability under increasing loads.
- Designed and fabricated a popsicle-stick truss optimized for load efficiency using only 100 popsicle sticks.

Professional Experience

Evergreen Cafe – Cashier/Barista/Host

Berkeley, CA — December 2025 – Present

- Served 120+ customers per shift in a fast-paced environment as one of the 3 main baristas
- Assisted in bi-monthly events collaborating with local vendors and artists to unite the community

Parachute Home – Sales Associate

San Francisco, CA — Summer 2026

- Sold \$20000+ of bedding product to customers and trade-partners and maintained 23% conversion rate.

Leadership and Extracurriculars

Social Chair — Hispanic Engineers and Scientists

UC Berkeley, CA — Fall 2025 – present

- Planned potlucks and tutoring sessions to foster community among Hispanic STEM students
- Fundraised \$300+ per semester and organized events for 40+ attendees including an annual banquet

Stockton Highschool Volunteering

Stockton, CA — October 2025

- Designed a low-cost air purifiers and educated students on air quality using hands-on models

International Tutorings — International Volunteering

Oaxaca, Mexico — Summer 2023 & 2024

- Taught English and Math to low-income students and quiz score increased by 25% an 50% for each subject