Dylan Sebastian Heredia

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EDUCATION

Harvey Mudd College   **Claremont, CA**
B.S. General Engineering (GPA: 3.6)   *Graduation Date: May 2027*
- Organizations/Awards: Division-III Men's Ultimate Frisbee, Mudd Amateur Rocketry Club, Dean's List

Relevant Coursework
In Progress: Experimental Engr. | Continuum Mechanics   *Spring 2025*
Completed: Design & Manufacturing | Engr. Systems | Digital Elec. & Comp. Engr. | MatSci | Applied Math for Engr.

WORK EXPERIENCES

Harvey Mudd College Machine Shop   **Claremont, CA**
Shop Proctor   *September 2024 - Present*
- Teach 100+ first time users each semester how to use the metal shop and wood shop equipment safely to reduce injury.
- Provide users with on-the-spot guidance to improve machining techniques, fostering confidence and competence.
- Actively participate in weekly training sessions to discuss shop safety and strategies for improving shop efficiency.

UCLA Department of Medicine Statistics Core (DOMStat)   **Remote**
Student Assistant   *August 2024 - Present*
- Populate an engaging website interface that prioritizes user experience, accessibility, privacy and clear navigation.
- Ensure website design has consistent visual elements, typography, and color schemes to reinforce UCLA Health identity.
- Communicate weekly progress with my supervisor and regularly collaborate with IT to build a professional website.

Math, Music & Spanish Tutor   **Remote**
Peer Tutor   *Aug. 2020 - May 2023*
- Prepare 10+ students grades K-12 for recital performances, public speaking presentations, unit tests, and AP exams.
- Address areas of struggle with tailored coaching and engage mentees in conceptual discussion to deepen understanding.
- Cultivate an appreciation for subjects by incorporating real-world, historical, and cultural context to learning material.

LEADERSHIP EXPERIENCE

Pomona College Optimization of Neuroimaging Apparatus Research   **Claremont, CA**
Student Engineer on "Thru the Thick of It"   *January 2024 - May 2024*
- Improved signal clarity of Pomona College's functional Near-Infrared Spectroscopy (fNIRS) brain oxygen-level monitoring device for individuals with dense hair types (3C, 4A), improving performance from critical to acceptable.
- Machined prototypes to verify proof of concept, conducted measurements and created detailed sketches for prototype designs, and refined iterations based on client input and feedback from professors and peers during design reviews.
- Developed comprehensive process routers for all prototype designs and documented findings into reports to be shared with the team, client, and engineering faculty.

Santa Monica High School Chamber Orchestra Fundraiser Performances   **Various Locations**
Principal Violist   *September 2021 - May 2023*
- Led and performed in 50+ quartet and small group performances at weddings, birthday parties, memorials, holiday events, and local schools, raising approximately $10,000 in funds for instruments and scholarships for lessons.
- Directed the viola section consisting of 6 musicians and managed sectional rehearsals, collaborated with principals from other sections to ensure consistent bowings, and maintained cohesive and well-organized ensemble performances.
- Curated repertoire and managed communication with event hosts in the absence of the director, ensuring flexibility, professionalism, and client satisfaction.

Reaching Bigger Goals   **Santa Monica, CA**
Student Presenter   *August 2022 - May 2023*
- Presented 90-minute presentations to 100+ high school freshman and sophomores, predominantly from Hispanic backgrounds, outlining graduation requirements and key insights on college and career opportunities post-graduation.
- Promoted active student engagement through interactive activities, incorporating creative exercises and prompts to inspire interest in higher education and foster a supportive and engaging environment for all students.

SKILLS
Software / Languages: Microsoft Suite | SolidWorks | MATLAB | LabVIEW | Spanish Fluency | Python | C | SystemVerilog
Machine Shop / Laboratory: Lathe | CNC Mill | Power Tools | Laser Cutter | Oscilloscope | Soldering | Pipetting | Wet-Lab