
Maxwell Rosen

Undergraduate | UC San Diego

Southern California

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Personal Statement:

I am a Chemical Engineering major with a Business Economics minor, driven by a long-term goal of contributing to biotechnology research and development. In the near term, I am focused on building my research skills at the Salk Institute, excelling academically, and seeking experiences that expose me to the frontier of biomedical engineering. Looking further ahead, I am weighing graduate school against moving directly into industry, but regardless of the path, I want to be the kind of engineer who relentlessly iterates towards the best possible solution. I am most energized when a project demands problem-solving under real constraints, and I hope to channel that drive toward building medical devices that meaningfully improve patient care.

Education

University of California, San Diego, CA - *Bachelor of Science*

September 2024 - June 2028

- Chemical Engineering Major | Business Economics Minor
- GPA: 3.98
- Relevant Coursework: Thermodynamics, Material and Energy Balances, Organic Chemistry, Organizational Leadership

La Cañada High School - *High School Diploma*

August 2020 - June 2024

- GPA: 4.00
- Relevant Coursework: Sports Medicine, Medical Biology
- AP Scores: 5 Calculus BC, Chemistry, Biology, 4 AP Physics

Skills

- Python, Raspberry Pi, [Github](#), MATLAB, CAD Autodesk Fusion, Microsoft Excel

Experience

Salk Institute Intern - *Lab Intern*

Salk Institute, Ecker Lab • September 2025 - Present

- Design and deploy 4 Raspberry Pi-based high-throughput imaging systems running scalable Python scripts to monitor plant growth across 200+ samples under variable environmental stress
- Collaborate with a cross-functional team of 4 to troubleshoot and solve hardware-software integration challenges while fulfilling time-sensitive project parameters

Camper Care Associate - *MESSH Support, Inclusion/General Counselor*

Shalom Institute • Summer 2023 - Present

- Head Counselor for 10+ campers per cabin while supporting Mental, Emotional, Social, and

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- Spiritual Health (MESSH) for 5 campers with special needs
 - Formulate and lead 20 programs per summer to promote values like building community, repairing the earth, and role modeling

Utility - Lighting

Showpro, Freelance • September 2025 - Present

- Execute live event production through fixture placement, cable routing, dimmer/DMX setup, and power distribution to meet show specifications and ensure efficient run-of-show operations

Triton Engineering Student Council - Operations Committee

UC San Diego • March 2025 - June 2025

- Organized professional development and networking events for engineering students
- Strengthened project coordination, communication, and logistical planning

Goldman Sachs Possibilities Summit - Engineering Summit

Goldman Sachs • January 2025 - June 2025

- Cultivated top industry skills through networking events and webinars

Athletic Trainer Internship - Senior Intern

LCHS • April 2022 - June 2024

- Shadowed licensed Athletic Trainer in injury prevention and rehabilitation
- Administered first aid and injury prevention to 40+ student-athletes
- Mentored 4 junior interns, developed hands-on care, attention to detail, problem solving under pressure, and communication skills

Science National Honors Society - Secretary

LCHS • October 2021 - June 2024

- Organized and volunteered in 15 community science events (20-40 participants), arranged 25 science-related lectures (5-40 student audiences), operated the requirement tracker, and formulated/sent the weekly update to our 120+ High School members
- Collaborated with 4 other board members

Technology Advisory Council - Student Advisor

LCHS • November 2020 - June 2023

- Developed improvements to LCHS's communication and efficiency between students and staff through technology

Wrestling - Varsity Starter

LCHS • July 2022 - June 2024

- Practiced with and mentored 40 athletes
- Wrestled in 23 regional and national competitions
- CIF Champion for Character (see Awards)

Awards

CIF Champion for Character

September 2023

- 1 of 13 student-athletes, chosen from thousands of applicants in the CIF Southern Section
- Honored my commitment to leadership in upholding the CIF ideals of sportsmanship, integrity, positive relations, respect for diversity of all people, competition, fair play over victory, and scrupulous adherence to the rules of Wrestling

Commercial Photography Awards

March 2024

- Award of Excellence & Honorable Mentions by Working Assumptions in WorkXFamily
- Honorable Mention in California Streaming 2024 Digital Photo Contest

Volunteer Experience

AIChE National Conference - 10/27/2024

5.5 Hours • 9 AM - 12 PM & 5:30 PM - 8 PM

- Assisted checking in for K-12 showcase event, and assisted badge check-in for general event
- Supported 30 colleges and 200+ chemical engineers from around the world at this event

Red Cross Club Blood Drive - 3/1/2023, 11/6/2023

12 Hours

- Assisted with Set-Up, Check-in, and Take-Down
- Donated blood as a participant

Operation Gratitude, Los Angeles, CA - 2023

6 Hours

- Boxed 30 care packages (personal hygiene, encouraging notes, snacks, etc.) for American soldiers on the front lines

Math Competition Volunteer - 2022-2024

25 Hours

- Assisted with Set-Up, Check-In, Grading, and Takedown
- Events: 3x Mathzilla (3 Elementary Schools), 2x Aleph (Middle Schools from around Los Angeles area)