

EDUCATION

UNIVERSITY OF CALIFORNIA- SANTA BARBARA

September 2023 - Expected June 2027

Bachelors of Science in Physics and Bachelors of Science in Applied Mathematics

- GPA: 3.64/4.00, College of Letters and Sciences
- Honors: UCSB Honors Program (September 2024 - present), UCSB Deans Honors (Winter 2024)
- Relevant Coursework: Python Programming, Vector Calculus, Differential Equations, Linear Algebra, Electrodynamics, Thermodynamics, Optics, Circuitry, Newtonian Mechanics, Proof-Writing

MANASQUAN HIGH SCHOOL

September 2019 - June 2023

Advanced Diploma

- GPA: 4.0/4.0 (Unweighted) 4.3/4.0 (Weighted)
- Academy of Finance (9-12), National Honor Society (11 & 12), Honor Roll (9-12), Key Club (9-12), Hockey Team (9), Surf Team (10 & 11)

PROFESSIONAL EXPERIENCE

UCSB DEPARTMENT OF PHYSICS

March 2025 - Present

Learning Assistant

- Lead discussions and clarify concepts in Physics 7B, focusing on electric fields, Gauss's law, and DC circuits.
- Collaborate with instructors to enhance student engagement and improve comprehension through interactive learning strategies.

CHANNEL ISLANDS SURFBOARDS

February 2024 - November 2024

Sander

- Experience refining and polishing surfboards for a large scale manufacturer with a strong focus on consistency and precision.
- Sanded 100+ surfboards in a fast-paced manufacturing setting, ensuring high-quality finishes.

MENCEL SURFBOARDS

August 2021 - August 2024

Sander

- Progressed from factory cleaning duties to surfboard repair, fin installations, routing, airbrushing, laminating, and more.
- Completed and worked on 500+ surfboards and repaired 400+ by working 40+ hours weekly while attending school.
- Developed a complex understanding of multiple composite materials, such as polyesters and polyurethanes through working hands-on, in a team oriented environment.

HAGER RICHTER GEOPHYSICS

July 2024

Summer Intern

- Assisted with soil resistivity and ground-penetrating radar (GPR) surveys ultimately used for civil and environmental engineering development projects across New York City.
- Collected and analyzed geophysical data for engineering applications.

SPRING LAKE OCEAN RESCUE

May 2023 - August 2024

Beach Lifeguard

- Enforced beach rules, educated visitors about safety, became skilled in emergency first aid, and maintained physical readiness for emergency response.
- Conducted 40+ open-water rescues and enforced beach safety regulations.

ZETA PSI

May 2024 - December 2024

Treasurer

- Managed fraternity finances (\$30,000+ per UCSB quarter), including budgeting, expense tracking, and dues collection, ensuring financial stability and transparency.

V.P. Social Events

November 2024 - Present

- Plan and organize all fraternity events between sororities and other fraternities.

EXTRACURRICULAR EXPERIENCE

UCSB SOCIETY OF PHYSICS STUDENTS

September 2024 - Present

Member

GAUCHO ROCKET PROJECT

October 2024 - Present

Team Member

- Collaborate on a team of other undergraduate scientists and engineers to design, build, and launch a robust model rocket.
- Member of the design team, responsible for using CAD to develop and design various parts of the rocket.

UCSB PHYSICS ORGANIZATION FOR INNOVATION AND TECHNOLOGY

January 2024 - Present

Member

- Active member of an engineering-focused, project-based physics club; currently developing and constructing a drone.
- PHYS 150 (Winter 2025 Final Project/POINT): Designing and implementing a high-precision scanning device utilizing photon detector technology for advanced optical measurement and analysis, alongside Prof. Dave Stuart UCSB.

UCSB SURF TEAM

September 2023 - Present

Member

VOLUNTEERING

SEA GIRT HOMEWORK CLUB (GRADES 11 & 12)

September 2021 - June 2023

Founder & Lead Tutor

- Provided an outlet for younger elementary students to learn in an encouraging environment through free tutoring.

SKILLS

- **Technical:** Soldering, Electronics (Arduinos, Accelerometers), CNC, subtractive and additive manufacturing, oscilloscopes, etc.
- **Programming Languages: Proficient:** Python, Java, JavaScript, and CAD | **Novice:** MATLAB
- **Languages: Proficient:** Spanish