

SAMUEL SARZEN

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EDUCATION

UNIVERSITY OF CALIFORNIA- SANTA BARBARA

September, 2023 - June, 2027

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

- Cumulative GPA: 3.56/4.00, College of Letters and Sciences
- Honors: UCSB Honors Program (September 2024 - present), UCSB Deans Honors (Winter 2024)

MANASQUAN HIGH SCHOOL

September, 2019 - June, 2023

Advanced Diploma

- GPA: 4.0/4.0 (Unweighted) 4.3/4.0 (Weighted)
- Honors: Academy of Finance (grades 9-12), National Honor Society (grades 11 & 12), Honor Roll (grades 9-12)

PROFESSIONAL EXPERIENCE

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

- In charge of planning and organizing all fraternity social events between other sororities and 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

- Engineering focused physics project based club, I am currently working on 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

MANASQUAN HIGH SCHOOL SURF TEAM

September, 2020 - June, 2022

Member

VOLUNTEERING

SEA GIRL 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

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- **Technical:** Soldering, Electronics (Arduinos, Accelerometers), subtractive manufacturing, etc.
 - **Programming Languages: Proficient:** Python, Java, JavaScript, and CAD | **Novice:** MATLAB.
 - **Soft Skills:** Leadership, communication, time management, teamwork.
 - **Languages: Proficient:** Spanish.
 - **Other Skills:** Balancing a busy class schedule, oftentimes taken almost double the average course load while also being involved in clubs, extracurriculars, and work.