NATHANIEL SIH

Mechanical Engineering / Product Design Student-Athlete, Yale University

CONTACT

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SKILLS

- SOLIDWORKS CAD
- Rhino/Grasshopper
- Additive Mfg.
- Design for Mfg.
- Injection Molding
- 3D Printing
- Adobe InDesign
- Adobe Illustrator
- MS Office Suite
- Matlab
- Power/Shop Tools
- C, Arduino, html
- Intermediate Mandarin

- Creative Thinking
- Problem Solving
- Teamwork
- Project Mangement
- Time Mangement

EDUCATION

Mechanical Engineering, BS (ABET Accredited)
Yale University
New Haven, CT

2021-2025
GPA: 3.76

High School Diploma
Corona Del Mar High School
Newport Beach, CA

2017-2021
GPA: 4.45

design

ABOUT NATHAN

Dedicated varsity sailor, innovative mechanical engineer, passionate product designer.

Empathetic teammate, inquisitive problem solver, lifelong learner.

EXPERIENCE

Wilson Sporting Goods Mechanical Engineering Co-Op

Wilson Sporting Goods / Chicago, IL / June 2024 – December 2024

Designed and engineered "Factory of the Future" projects for the innovation of basketball manufacturing, including the Wilson 3D-printed Airless Basketball.

- Routinely worked across 3+ individual product lines and collaborated with 5+ different external vendors to develop targeted solutions for each product.
- Created a new unique ball design and manufacturing process that allows for significant increases to high-volume additive manufacturing efficiency.
- Designed and tested 100+ unique prototype basketballs for lamination, 3D printing, injection molding, reaction injection molding, and rotational molding.
- Created complex and intensive CAD using SolidWorks, Rhino 3D, Grasshopper, and nTop, with exposure to NX and Catia.
- Developed teamwork, project managment, creative thinking, and problem solving skills through working with a close-knit multidisciplinary engineering/design team.

The Lee Company Mechanical Engineering Internship

The Lee Company / Westbrook, CT / June 2023 – August 2023

Extreme testing and product design for aluminum and steel Lee Plugs.

- Tested Lee Plugs for space application feasibility at 250% higher pressures than standard, while maintaing zero leak measurements with helium leak tests.
- Designed and analyzed a new custom manifold for impulse testing at 150% increased pressures and 2.5x greater efficiency.
- Developed critical thinking skills while working with Solidworks CAD and analysis, and high precision testing equipment.

ProjectLine TS Mechanical Engineering Internship

ProjectLine TS Inc. / Costa Mesa, CA / June 2022 – August 2022

Renewable energy source reasearch for Metabolic Studio's BRBC Project.

- Researched and compiled a technical memorandum of the physics of photovoltaic solar panels and battery energy storage systems, comparing Si versus CdTe solar panels for potential use in the BRBC Project.

Varsity Sailing Captain, Student-Athlete

Yale University / New Haven, CT / August 2020 – May 2025

Captain of and competed on the Yale Varsity Sailing Team (Ranked 1st nationally and awarded top overall collegiate sailing team for 2021–22 season).

- Elected captain for Spring 2024 - Fall 2025 season.
- 1st place 2024 NEISA Open Team Race Championship.
- 2nd place 2025 ICSA Open Team Race National Championship.
- Developed leadership, time management, teamwork, and critical thinking skills through working as a liaison between my coaches and teammates.