

Oliver Chang

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Education

University of California, Berkeley
Mechanical Engineering

Class of 2028

Work Experience

Scouts BSA Summer Camp Staff

June-July 2022, 2023, 2024

Kitchen Staff, Aquatics Staff, Handicraft Director

- Curated & taught custom hiking stick projects, inc leatherworking & simple woodworking skills
- Instructed over 30 scouts/week on first aid, swimming, and lifesaving merit badges

Extracurricular Activities

Fremont High Robotics, FHS

2020 - 2024

FRC 3501 Firebots | VP Mechanical Design

- Created 6-month training program to prepare incoming team on Onshape and FRC design
- Led the design of Serrano, our competition robot for the 2024 FIRST Robotics Competition. The first iteration was designed within the first 2 weeks of build season, with an overhaul of the intake and flywheels after our first competition. Top 15% of all teams in the world
- Coordinated with manufacturing to create industry-standard drawings & deliver high-quality parts
- Redesigned school workshop by designing and building 13 custom tables, 2 CNC Enclosures, with overhauled of tool and machine organization to streamline work processes

FTC 15632 Sparkbots

- Designed, manufactured, assembled, and wired competition-winning robot
- Compiled engineering portfolio, winning 2x Think Awards (Top Technical Award)

Business and Media (BaM) Team - Business Lead

- Led a team to apply for 15+ grants, built grant writing system ground-up and budgeted expenses
- Planned and hosted 35+ outreach events exposing 10,000+ attendees to FIRST opportunities
- Created 5 unique lesson plans to introduce STEAM to elementary school students, now taught monthly to 500+ students across 6 local elementary school after-school programs

Volunteer, FIRST Robotics Events

- Volunteered at 10+ FIRST robotics competitions and events, including as Robot Design Judge at FLL Champs & Field Reset, Pit Admin, Practice Field Attendant, Queuer at FRC competitions.

National Honor Society, FHS

2020 - Present

Treasurer, President

- Raised 2000+ lbs clothing in goodwill drive, created 200 hygiene kits, made 300 dog toys for Humane Society of Silicon Valley, and assisted local food banks with drives and packaging
- Coordinated student volunteers for school's peer tutoring service Students for Success

Honors/Awards

Dean's List Semifinalist, FIRST Robotics

Eagle Scout, Scouts BSA: Drafted, financed, and built equipment shed for Sunnyvale Little League with over 270 volunteer hours and 6 months of construction due to COVID-19 delays.

Skills

Onshape, Solidworks, Fusion 360, Canva, Python, Java, Arduino, Carpentry