

Timothy Duffy
Belmont, CA
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EDUCATION

CORNELL UNIVERSITY

B.S. Candidate, Mechanical Engineering

Ithaca, NY
2023-present

Relevant Coursework: Linear Algebra for Engineers, Physics II: Electromagnetism, Physics III: Oscillations, Waves, and Quantum Physics, Statics and Mechanics of Solids, Thermodynamics, Dynamics, CAD Mechanical Design, Mechatronics, 3.949 Cumulative GPA

Gap Semester in Spring of 2025 due to health issues

CARLMONT HIGH SCHOOL

High School Diploma

Belmont, CA
2019-2023

WORK EXPERIENCE

ZT GROUP

Undergraduate Researcher

02/2026-Present

- Fabrication and testing of heating modules for a Steady-State Thermal Conductivity Device.
- Produced Parametric CAD models and Machining to low tolerances of modules to accommodate different sized samples.

AMERICAN PRECISION GEAR CO, INC.

Machinist

04/2025-7/2025

- Manufactured gears on CNC and Lathe machines
- QC Engineering to ensure tight tolerances of gears
- Completed basic Machine maintenance

CORNELL ALUMNI ASSOCIATION OF NORTHERN CALIFORNIA

Clerk

06/2024-10/2024

- Organized and managed various projects, ensuring timely execution and alignment with objectives
- Recorded detailed meeting notes to facilitate communication and follow up on action items
- Managed the shipping and logistics of event materials

NORCAL CREW SUMMER CAMP

Summer Camp Coach

Redwood City, CA
2022-2024 (seasonal)

- Coached groups of children ages 11-18, overseeing drills and practice schedules to augment individual ability
- Managed and maintained equipment throughout camp, manned front desk with upbeat personality

THE BAY CLUB COMPANY

Lifeguard

04/2022-08/2022

- Monitored Pool activities, administered swim tests, provided first aid, and ensured safety of patrons
- Performed maintenance on pool and slide equipment

TECHNICAL SKILLS

- Proficiency in MATLAB and Python, limited Java skills
- Proficiency in AutoDesk
- QC Engineering

ATHLETIC ACTIVITIES AND EXPERIENCE

CORNELL LIGHTWEIGHT ROWING

Athlete — Cornell Lightweight Rowing

Ithaca, NY
2023-2025

- Training for 20+ hours per week, developing skills in discipline and communication to reach team and personal goals while balancing rigorous course load
- Developing strong work ethic and mental resilience through regular practice, conditioning, and competition
- Unable to continue due to injury