

Timothy Duffy
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EDUCATION

CORNELL UNIVERSITY

B.S. Candidate, Mechanical Engineering

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

Ithaca, NY

2023-present

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