

Pirouz Ruppert

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EDUCATION

The University of Chicago
B.S. in Molecular Engineering, Quantum Track

Chicago, IL
Expected June 2030

University High School
High School Diploma

Irvine, CA
June 2026

Honors: Magna Cum Laude; Award of Merit in English, Award of Merit in Career & Technical Education
Relevant Coursework: Multivariable Calculus (Calc III); Elementary Differential Equations — dual enrollment, Irvine Valley College; CompTIA A+ Hardware & Software Fundamentals

EXPERIENCE

IT Department, University High School
Technology Volunteer

Irvine, CA
November 2024 – Present

- Diagnose and resolve hardware and software faults across student laptops using structured troubleshooting frameworks, reducing repeat service requests
- Perform component-level repairs and device decommissioning in compliance with school data security and lifecycle protocols

CEO Leadership Alliance of Orange County (CLAOC) & UCI
Student Intern

Irvine, CA
June 2025 – July 2025

- Selected for competitive 6-week professional development program hosted by a regional executive leadership consortium
- Developed and presented an AI-augmented data storytelling project to a panel of senior industry executives

Dyne Research
Marketing Intern

Remote
August 2024 – April 2025

- Conducted competitive market research across key industry segments, synthesizing customer pain points into actionable product development recommendations
- Coordinated limited-access product waitlist, managing prospective customer pipeline and improving conversion funnel visibility for the launch team

Global Modular Grippers GmbH
Apprenticeship Trainee

Soest, Germany
June 2019 – July 2019

- Performed precision mechanical assembly of industrial modular gripper components to tight manufacturing tolerances using professional-grade tooling
- Gained early exposure to electromechanical actuation systems and quality inspection procedures under German industrial manufacturing standards

PROJECTS

Robot Autonomous Open Racing (ROAR)
Student Competitor — 2nd (Fall 2024), 2nd (Spring 2025), 3rd (Spring 2026)

UC Berkeley, CA
Fall 2024 – Spring 2026

- Applied mathematical modeling and machine learning to optimize autonomous vehicle path planning in a virtual simulation environment, earning top-3 finishes across 3 consecutive competitions
- Iteratively refined ML-based control algorithms across Fall 2024, Spring 2025, and Spring 2026 cycles, improving model accuracy and lap-time optimization with each successive build

LEADERSHIP & ACTIVITIES

PC Building & Hardware Club (PCMR), University High School
President

Irvine, CA
2025 – 2026

Vice President

2022 – 2025

- Led and grew technical club to consistent attendance of 25–30 members, focused on computer hardware architecture, system assembly, and performance benchmarking
- Organized workshops on CPU/GPU selection, BIOS configuration, thermal management, and hardware diagnostics; directed end-to-end system builds from component sourcing through final testing

SKILLS

Languages: English (native); Persian (native spoken fluency); German (full professional proficiency); Spanish (professional proficiency)

Technical: PC hardware assembly and diagnostics, precision mechanical assembly, industrial tooling, multimeter/oscilloscope use; Microsoft Office; deep technical research; AI/ ML use and development; advanced physics and mathematics