Darren Luu

Los Angeles, CA 90024 | (951) 710-0995 | darrenluu2025@gmail.com

EDUCATION

University of California, Los Angeles (UCLA)   **Los Angeles, CA**
Pursuing a B.S. in Computer Engineering, 4.0 GPA   *Expected Jun. 2029*

Mt. San Jacinto Community College (MSJC)   **San Jacinto, CA**
Concurrent Enrollment Student, 4.0 GPA   *Jun. 2024 - Jun. 2025*

Paloma Valley High School (PVHS)   **Menifee, CA**
High School Diploma, 4.0 GPA   *Aug. 2021 - Jun. 2025*

TECHNICAL SKILLS

- **Programming:** Python, Java
- **Software:** Onshape (CAD), Google Workspace, Microsoft Office
- **Fabrication**: 3D Printing, Soldering

RELEVANT COURSEWORK

UCLA
- COM SCI 31: Introduction to Computer Science I
- MATH 33B: Differential Equations

MSJC
- MATH 213: Analytic Geometry and Calculus III (Multivariable Calculus)
- MATH 218: Linear Algebra

PVHS
- AP Physics C: Mechanics, AP Exam Score: 5
- AP Calculus AB & BC, AP Exam Score: 5

TECHNICAL EXPERIENCE

Qiskit Fall Fest Hackathon   **Los Angeles, CA** | *Oct. 2025*
- Co-developed a "Quantum Casino" application, demonstrating the use of quantum principles for games of chance.
- Implemented quantum randomness by applying Hadamard gates to qubits in Qiskit, leveraging their superposition and measurement-based collapse.
- Successfully built and presented a functional prototype of a quantum-based slot machine and dice game.

Club President & Lead Programmer | *FIRST Tech Challenge (FTC) Robotics*   **Menifee, CA** | *Aug. 2022 - May 2025*
- Engineered 100% of the team's robot code in Java using Android Studio, developing complex algorithms for both autonomous and tele-operated competition periods.
- Directed all phases of the robot build cycle, from CAD modeling in Onshape to fabrication using 3D printers, power tools, and soldering, ensuring competition readiness ahead of schedule.
- Spearheaded 400% club growth from 5 to 20 students and led the team to recognition as a **Finalist Alliance** (2023) and winner of the **3rd Place Think and Innovate Award** (2024).

Lead Report Editor | *Seaperch: Underwater ROV*   **Menifee, CA** | *Mar. 2025*
- Authored and edited a comprehensive Technical Design Report, translating the team's engineering design process into a professional document for review.
- Created compelling data visualizations using Google Sheets and articulated key design choices, contributing to a 5th-place finish (out of 18) in the Technical Design Report category at the Inland Empire Regional competition.

Project Lead | *MESA Machine: Wind-Powered Car*   **Menifee, CA** | *Sep. 2023 - Apr. 2024*
- Engineered a Rube-Goldberg-style machine exclusively from recyclable materials and served as the lead troubleshooter during competitions, performing real-time repairs to ensure operation.
- Led team to 1st Place in the Southern California Regional MESA Day for 9th/10th grade (Highest division).