Kevin Chang

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Education

University of California, Los Angeles (UCLA) Expected grad: June 2029
Candidate for B.S. in Electrical Engineering | GPA: 4.0/4.0 | Dean's Honor List fall quarter 2025
Selected as 1 of 50 students from the incoming cohort for the New Bruin Leadership Academy.

Homestead High School - *Valedictorian* | GPA: 4.0/4.0 | Dual Enrolled at De Anza College
Extracurriculars: National Art Honor Society President, Biology Club Vice President, Programming Club Workshops Director, Hack the Lab Hackathon Treasurer. Obtained 2 Green and White Awards.

Distinctions

Undercity Github x Hack Club Hackathon - 1st Place [*International*] 2025
Won 1st out of 60 teams/160 participants at the world's largest teen hardware hackathon hosted by Github and Hack Club. The 160 participants of the Undercity hackathon at Github HQ were invited from across the world out of 5,564 members that participated in Highway to Undercity based on project submissions. (Project v1, Project v2)

Chinese American Citizens Alliance National Essay Contest - Top 10 [*National*] 2025

Presidential Volunteer Service Award Teen Gold [*National*] 2022

Scholastic Art and Writing Awards - Gold Key + HM [*Regional*] 2023/2024

USA Biology Olympiad Certificate of Merit [*National*] 2024

Projects

Portfolio: https://www.changchang.me/portfolio.html

Tactile Browser - UCLA IEEE Student Project Initiative (Ongoing)
Developing a novel interactive tactile display that enables blind users to navigate web content in 2 dimensions, with a projected cost 21× lower than the closest competitor. The device consists of a 12x6 array of bistable solenoids driving key switches, forming a reconfigurable tactile surface that encodes HTML elements as specific keycap configurations. It is made with rearrangeable 3x6 modules to form multiple sizes like 12x6 for spatial memory and 15x12 for full screen capture.

Automatic Toilet Paper Folder - Device that dispenses and folds toilet paper using 2 NEMA stepper motors.

Bentopad - Custom macropad with rotary keyswitches and encoders designed with a bento box aesthetic.

PCB Business Cards - LED-embedded PCB cards that open a personal website via an NFC chip.

Brain Computer Interface - Records and amplifies alpha brainwaves from EEG signals.

Urban Heat Mitigation - Optimizating the placement of greenspace and reflective surfaces to reduce urban heat islands.

Electrocardiogram - Created a portable EKG device with an LCD display alongside 2 others for ENGR 1EC.

Experience

UCLA Emergence of Communication Lab - PCB Design Intern 2026
Design PCBs for wearable infant sensing device prototypes that collect audiovisual data to study the emergence of speech and communication.

UCSB SRA - Researcher 2023
Participated in Summer Research Academies classes and gained lab experience in neuroscience.
Co-authored paper: "The Role of the Hippocampus in Context-dependent Decision Making and Continual Learning."

International Youth Neuroscience Association - U.S. Western Lead 2023 - 2025
Oversaw 28 chapters, coordinated events, created educational labs, and supported chapter growth. Led Glendora High (USA011) to become the top chapter nationwide.

Inobis Academy - Co-Founder / Tutor 2022 - 2025
Co-founded 501(c)(3) nonprofit providing free STEM tutoring. Organized over 500 sessions tutoring Algebra 2, Trig, and AP Physics 1. Established office hours. Developed intuitive methods by teaching subjects like physics through an historical lens.

Skills

Hardware: PCB Design (Kicad, EasyEDA), CAD (Fusion360, Onshape), Embedded Systems (C/C++, I2C, SPI), Power Management | Programming: Python, Java, R, HTML/CSS, JavaScript | Design: Figma, Canva, Fine Arts