

# Kevin Chang

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## Education

### University of California, Los Angeles (UCLA)

*Expected grad: June 2029*

Candidate for B.S. in Electrical Engineering

1 of 50 students selected from the class of 2029 for the New Bruin Leadership Academy.

### Homestead High School - *Valedictorian*

Class of 2025

Dual Enrolled at De Anza College | Coursework: General Psychology, Introductory Chemistry | UGPA: 4.0

### University of California, Santa Barbara

Summer 2023

Attended the Summer Research Academies. Obtained lab experience in neuroscience & wrote a paper with 2 others: "The Role of the Hippocampus in Context-dependent Decision Making & Continual Learning."

## Experience

### International Youth Neuroscience Association - U.S. Western Lead

2023 - 2025

Oversaw 28 chapters, coordinated events, created educational labs, & 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, & AP Physics 1. Established office hours. Developed intuitive methods by teaching subjects like physics through an historical lens.

### National Art Honor Society - President

2023 - 2025

Led a 70+ member chapter as 2024-25 president. Directed external collaborations in 2023-24.

### Biology Club - Vice President

2023 - 2025

Organized events to promote biology, like terrarium making, test prep, bacterial colonies, etc for a ~30 member club.

### Programming Club - Workshops Director

2024 - 2025

Ran weekly workshops on topics like facial recognition, R-based data analysis, NLP, etc for a ~40 member club.

### Hack the Lab - Executive Officer / Treasurer

2023 - 2024

Led sponsorship outreach & managed finances via Hack Club Bank. Raised \$1300+ worth of prizes.

## 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 & 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 2D interactive tactile display that enables blind users to navigate web content spatially, with a projected cost ~9× lower than existing solutions.

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

**Bentopad** - Custom macropad with rotary keyswitches & 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** - Optimizing the placement of greenspace and reflective surfaces to reduce urban heat islands.

## 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