

# Jacob Chiu

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2024-08-17

## EDUCATION

### Henry M. Gunn High School

Palo Alto, CA

GPA (UW) 4.0; GPA (W) 4.3; GPA (W 10–12 A–G) 4.7

Aug 2022 - Present

- **Relevant Coursework:** Algebra II/Trigonometry H, Analysis H, Biology H, Chemistry H, Functional Object Oriented Programming H, AP Computer Science A, AP Physics C (IP), Principles of Engineering and Robotics (IP), AP Calculus BC (IP),
- **Extracurricular Activities:** Card Game Club president, Gunn Robotics Team
- **Awards:** World Language Award (AP Spanish)
- **AP Tests:** AP Computer Science A (5), AP Chemistry (5), AP Spanish (5), AP US Government (5)

### Irvine Valley College

Irvine, CA

GPA 4.0/4.0

Jul 2022 - Present

- **Relevant Coursework:** Intro to Psychology, Mass Media and Society, Intro to Computer Systems, Engineering Graphics and Descriptive Geometry, Intro to Engineering and Technology

### Additional Coursework

- BYUIS: Small Engine Repair
- Coursera: Programming for Everybody (Getting Started with Python), Python Data Structures, Using Python to Access Web Data

## EXTRACURRICULARS

### Synopsys Science Fair

San Jose, CA

Competitor

Jan 2023 - Present

- 2023: [Water Boiling Device with Heat Exchanger-Based Preheating to Produce Potable Water with Increased Energy Efficiency](#)
  - **Awards:** Bruce Kawanami Award, Honorable Mention
- 2024: [Compact Ferrofluid Pump for Laptop Liquid Cooling to Improve Cooling Performance Over Heat Pipes](#)
  - **Awards:** IEEE Award, Office of Naval Research Award

### Repair Café/Fixit Clinic

San Francisco Bay Area, CA

Fixer (Assist people in fixing broken items)

Aug 2023 - Present

- Things I've fixed: Coffee machines, toaster, sewing machine, VCR, etc. Read about it [here](#).

### Michigan Math and Science Scholars

Ann Arbor, MI

MMSS Participant; Sustainable Polymers

Summer 2023

### California State Summer School for Mathematics and Science (COSMOS)

San Diego, CA

Participant; Engineering Design and Control of Kinetic Sculptures

Summer 2024

## ADDITIONAL

- **Dream Catchers (Spring 2024):** tutor students at local middle school to prepare them for high school
- **Programming:** Java, Python, Arduino (C), Scheme
- **Handy skills:** Electronics and torch soldering, basic hand tool operations (filing, sawing, etc.), drilling, FreeCAD, 3D printing, AutoCAD [certified user](#)
- **Languages:** Mandarin (Intermediate), Cantonese (Advanced/Fluent), Spanish (Intermediate)
- **STN Film Competition (2021 and 2022):** Short Film (2nd Place), Commercial (3rd), Silent Film (1st), News Segment, PSA.
- **Additional Projects:** See my website: [jacobchiu.com](http://jacobchiu.com)
  - Gedit (text editor) word counter, custom alarm clock, zinc casting, typewriter restoration, etc.