

# Jacob Chiu

me@jacobchiu.com • Palo Alto, CA

2025-01-12

## EDUCATION

### Henry M. Gunn High School

Palo Alto, CA

GPA (UW) 4.0/4.0; SAT 1580/1600; PSAT 1520/1520

Aug 2022 – Present

- **Relevant Coursework:** Biology H, Chemistry H (self-studied AP Chemistry, 5), AP Spanish (5), self-studied AP US Government (5), AP Computer Science A (5), 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)

### 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

Volunteer Fixer (assist people in fixing broken items)

Aug 2023 – Present

- Have fixed coffee machines, toaster, sewing machines, VCR, etc. Read about it [here](#).

### 2023 Michigan Math and Science Scholars: Sustainable Polymers

Ann Arbor, MI

### 2024 COSMOS: Engineering Design and Control of Kinetic Sculptures

San Diego, CA

### Gunn Robotics Team

Palo Alto, CA

Drivetrain Sub-Group

Aug 2024 – Present

## ADDITIONAL

- **Dream Catchers (Spring 2024):** tutor students at local middle school to prepare them for high school
- **Programming:** Java (Intermediate), Python (Intermediate), Arduino (similar to C++, Intermediate), Scheme (Novice)
- **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)
- **Additional Projects:** See my website: [jacobchiu.com](http://jacobchiu.com)
  - Gedit (text editor) word counter, custom alarm clock, zinc casting, typewriter restoration, etc.