

Jacob Chiu

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2024-09-09

EDUCATION

Henry M. Gunn High School

Palo Alto, CA

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

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 - April 2024

- 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

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](#)
 - Gedit (text editor) word counter, custom alarm clock, zinc casting, typewriter restoration, etc.