

EDUCATION	Harvey Mudd College (Claremont, CA) B.S., undeclared major (probably Mathematics & Computer Science) Harvey S. Mudd Merit Scholarship recipient (2017-2021) Relevant coursework: <ul style="list-style-type: none">Principles & Practice of Computer Science (2017 Fall)Multivariable Calculus (2017 Fall)Computability & Logic (2018 Spring, not yet completed)	AUG. 2017–(MAY 2021)
	Monte Vista Christian School (Watsonville, CA) Salutatorian, GPA 4.5 (unweighted 4.0) Relevant coursework: <ul style="list-style-type: none">Digital Electronics (2016 Fall–2017 Spring)	AUG. 2014–MAY 2017
SKILLS	Languages Proficient: Python, \LaTeX Competent: Go, Bash, Javascript, HTML/CSS Basically familiar: Java, Rust, C/C++, Swift	
	Software/Hardware <ul style="list-style-type: none">Arch Linux (personal use and server administration)OpenSCAD (2D/3D CAD programming language)Arduino (basic circuit design and programming)Raspberry Pi (mini home servers)3D printers (maintenance, debugging, and software setup)	
PROJECTS	Totem: Table of the Elements (iOS app) <ul style="list-style-type: none">Developed a periodic table app that provides a comprehensive database of physical/chemical/atomic properties about the chemical elementsOver 3K downloads from users in U.S., Canada, Philippines, Thailand, and U.K. Relevant skills: <ul style="list-style-type: none">Data collection: manually cross-checked and tabulated data from several websites into Excel CSVData processing/conversion: wrote Python scripts to convert CSV into iOS-compatible P-listsUI design: designed table layout and button controls to be minimalistic and visually elegant but also straightforward and intuitive	SEP.–NOV. 2014
RESEARCH	Yale Summer Program in Astrophysics (YSPA) (New Haven, CT) <ul style="list-style-type: none">Undertook college-equivalent coursework in astronomical physics (astronomy, orbital mechanics)Collected and analyzed data on asteroid “1999ML” to predict potential future collisions with Earth Relevant skills: <ul style="list-style-type: none">Astronomical data collection: operated computerized telescope to collect image dataData analysis: performed image filtering/reduction and star detection using Python NumPy, SciPy, and AstroPy librariesData regression via basic genetic evolution: used Gauss and Lagrange methods to estimate asteroid orbit parameters, and “evolved” parameters to improve data fitNumerical integration: implemented numerical integration algorithms (RK4) and used Python REBOUND library to simulate asteroid orbits and predict potential Earth collisions	JUL.–AUG. 2016
LEADERSHIP	Unpaid tutoring Volunteered to tutor high school peers in physics, economics, and math Accomplishments: <ul style="list-style-type: none">Significantly improved a near-failing senior’s grades (10th grade)Helped a junior struggling in math score a 5 on the AP Calculus AB test (11th grade)	2015–PRESENT
	VEX robotics competition (High school) Collaborated with team of three to devise and implement robot design Spearheaded programming for robot remote-control and autonomous algorithms Placed third in Livermore regionals competition (2017)	SEP. 2016–FEB. 2017
ACHIEVEMENTS	U.S. National Physics Olympiad Gold medal	APR. 2016, 2017
	International Physics Olympiad U.S. team traveler (one of five); Gold medal	JUL. 2017
	ACM Intercollegiate Programming Competition (ICPC) Southern California regional competition; 11 th place (team of three)	Nov. 2017