

*Secret Security Clearance* granted by the Department of Defense (*currently applying for Top Secret Clearance*)

August 2019

United States Citizen

## Education

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**Harvey Mudd College**, Claremont, CA

May 2022

Bachelor of Science in Engineering

GPA:3.473/4

Relevant Coursework: Intro to Computer Science, Intro to Engineering Design, Mechanics and Wave Motion, Electromagnetic theory and Optics, Engineering Systems, Principles of Computer Science, Experimental Eng, Materials Eng, Fall 2020-Continuum Mechanics, Adv. Systems Eng, Clinic, Elec & Magnetic Circuits/Devices, Structural Mechanics

## Skills

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Programming languages: Python, Java

Shop skills: hand and power tools, machining, 3D printing

Software: Arduino, SolidWorks, Autodesk Inventor, Tableau,

Languages: Spanish-Proficient, Mandarin-Conversational

Siemens NX, NI Multisim, Logisim, Visual Studios, Git, Matlab

Microsoft Office Suite: Proficient

## Technical Experience

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**Systems Engineering Intern for Process Excellence**, Northrop Grumman, Redondo Beach, CA

June 2020-August 2020

- Gained skills in Tableau to create data visualizations that showcase metrics for all departments
- Developed charts and tools that help departments locate and improve their processes

**Software Intern for Advanced Battle Management System (ABMS)**, Northrop Grumman, Melbourne, FL

June 2019-August 2019

- Debugged and improved algorithm for a tactical program MOVINT Client, developed to allow operators to plan/analyze missions
- Updated the Graphical User Interface by coding toggle switches, a bar of mutually exclusive buttons, and more using C++
- Utilized the program Git for transferring and coordinating work among other programmers

**Student**, Intro to Engineering Design and Manufacturing, Claremont, CA

September 2018-May 2019

- Worked in small teams applying design and project management skills to solve problems typically posed by non-profit clients
- Designed and fabricated a motorized pitching machine for elderly people to easily launch bean bags into a corn hole
- Machined an ocarina, a hammer, and a tool tray using technical drawings and machines such as the mill, lathe, chop saw

**Electrical Lead and Drive Coach**, DBHS Robotics: Team Sprocket, Diamond Bar, CA

August 2013-May 2018

- Assisted in the fabrication and design process of the robot by prototyping different mechanisms such as a wheel intake system
- In charge of creating the robot's electrical board with all the components such as the sensors and motor controllers connected
- Engaged in workshops and volunteer events to introduce STEM to children and the community

**Summer Engineering Intern**, The Boeing Company, Huntington Beach, CA

June 2017-August 2017

- Collaborated with a team of three other interns in the satellite department to design a satellite that would orbit Jupiter's moon
- Created a formal proposal outlining the satellite's financial, technical, and power budgets
- Utilized Siemens NX to design a computer 3D model of the satellite with a unique truss system for structural support

## General Experience

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**Co-President**, Society of Women Engineers, Claremont, CA

September 2018-Present

- Stimulate my passion for engineering as I network with other individuals who share common interests and goals
- Attended SWE conferences to attend workshops and events hosted by accomplished women engineers
- Direct club officers to actively host school events where students, professors, and companies with similar interests can connect

**Member**, Mudd Amateur Rocketry Club, Claremont, CA

September 2018-Present

- Explore the field of rocketry by building and launching model rockets at launch sites and getting certified
- Performed structural analysis tests in Solidworks on the frame and junctions of the team's boosted dart design rocket

**Team Member**, Muddsub, Claremont, CA

January 2019-January 2020

- Work with 5 other students to design and manufacture an underwater vehicle system for Robosub Competition
- Operate machinery such as chop saw, hand drill, metal bender, mill, and lathe to fabricate or modify parts of the vehicle