

Ashley Cheung

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Portfolio: <https://acheung.me>

EXPERIENCE

Robotics Team, Potomac MD — *Captain*

September 2017 - April 2019

- Created and led new robotics team at high school
- Led meetings, build sessions, and practice sessions, managed team logistics and taught new members robotics skills
- Researched, ordered parts, and assembled linear slide and object gathering and depositing systems on omnidirectional robot
- Collaborated with other teams in the area to use laser cutter and 3D printer to create custom parts for specific applications
- Designed and built robots for competition in 2018 and 2019, placing in the finals and earning design trophies

The Free Theatre, Silver Spring MD — *Stage Manager*

September 2017 - May 2019

- Kept track of all lighting, sound, and set cues throughout rehearsal.
- Built sets, designed props, organized other students to run set changes quickly and efficiently.
- Made and enforced deadlines for other students working on show.

Hopecam, Reston VA — *Volunteer*

May 2019

- Collaborated with full time volunteers to provide webcams and tablets to hospitalized children so that they can communicate with classmates.
- Processed applications, prepared equipment, and planned events for charity.

EDUCATION

Harvey Mudd College, Claremont CA

September 2019 - Present

B.S. in General Engineering

PROJECTS

Dance Game Machine

- Leading the build of a semi-original dance game machine, with two sets of nine pressure-sensing panels and a housing for a TV monitor with arcade controls.
- Modeling structural components in SolidWorks and designing sensors from scratch
- Creating prototypes of frame using machine shop and hand tools

Mudd Advanced Rocketry Club

- Leading rocketry subteam responsible for structural components (body tubes, fins, nosecone) of a rocket for the International Rocketry Engineering Competition (IREC) 2022.
- Creating model rocket in order to learn about and demonstrate components of rocket to other team members

Escape Room

- Prototyping and building puzzles with laser cutter, 3D printer, and machine shop tools for an hour long space themed escape room to be played by hundreds of other students
- Designing and building temporary walls to divide a classroom into multiple sections to be progressed through during the experience

Solar Panel Smoothie Cart

- Leading design and manufacturing of a solar powered smoothie cart to encourage and learn about sustainability through engineering.
- Modeling and analyzing design with SolidWorks
- Organizing design files through GrabCad and spreadsheets

SKILLS

SolidWorks

Vectorworks

Adobe Photoshop

Adobe Illustrator

Python

Microsoft suite