

My Skills:

VIDEO EPITING

VISUAL DEVELOPMENT

AVAU

WEB & MOBILE DEVELOPMENT

ILLUSTRATION

PYTHON

PROFICIENT INTERMEDIATE

Some of my activities

Sanguages

FRENCH

CHINESE

TRESHMAN(9) OSOPHOMORE (10) OJUNIOR (11)

OSENIOR (12)

ROBOTICS : RESEARCH ::

HHS ATHENA PRESIDENT + CO

PHYSICS CLUB 3

AEROSPACE CLUB

SCIENCE BOWL-TEAM B CAPTAIN

ACADEMIC CENTER TUTOR ==

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ORCHESTRA 🔡

HHS CHOIR SS

PIANO

CROSS COUNTRY 38

MIDDLE SCHOOL SCIENCE BOWL MENTOR 38

MATH CLUB 38

COMPUTER SCIENCE O O TEACHER'S ASSISTANT •

GARAGE ELECTRONICS BUILDS

STARGIONE STUDIOS—WEB CONTENT OO

HOMESTEAD ROBOTICS

Vice President of Development | May 2020 - present

- Set goals and direction for Robotics in remote learning as well as developing organization structure & procedure for future years
- Organized online workshops to teach mechanical design, programming, and systems design, using interactive activities & projects to engage
 - Presented at local events and conferences about team's approach to software and teaching

Tech Lead | May 2019 - May 2020

- Designed high level software, control and electrical systems for Team 670's robots, as well as building a library and test framework.
- Led a team of over 40 students in designing, building, and testing systems for a robot.
- Developed workshops and lessons to give students hands-on experience in programming, control, and problem-solving
- Managed project workflow and scheduling, worked with mentors and other subteams to establish long-term goals. Wrote proposals for funding and presented regular project updates.
- Guided the team's R&D efforts in order to improve the control system, discover new opportunities and solve old problems. For example, this year, we implemented a new steering controller for autonomous driving, as well as a vision targeting and tracking system.

Finalist - Utah Regional - 2018 Systems Design Award - Calgames - 2018 Industrial Design Award - Silicon Valley Regional - 2019 Innovation Moonshot Award - Calgames - 2019 Finalist - Utah Regional - 2020 Innovation in Control Award - Utah Regional - 2020 KLA Creativity Award - 2020

AEROSPACE CLUB

President | May 2020 - Present

Secretary | August 2018 - May 2020

Software Lead & Research Co-Lead | February 2019 - present

- Contributed to planning and developing research projects, like a rocket with onboard sensors to collect atmospheric data
 - Collected and analyzed rocket flight data using JMP SAS as well as writing scripts to process it
- Designed and used simulations to predict optimal properties for model rockets
 - Organized meetings and presentations, including demos we built and fun games
 - Explored all kinds of things that fly with

- National Merit Semifinalist (2020)
- President's Volunteer Service Award, GOLD (2020)
- NCWIT Aspirations in Computing Regional Rising Star (2020)
- Green and White Award, Chemistry Honors (2020)
- AP Scholar with Distinction (2020)
- William Shakespeare Award (2019)
- USAMTS Silver Award (2018)
- AIME Qualifier (2018)

ASTRONOMY RESEARCH

Working with a mentor, I developed new and improved fastfolding program to process Kepler mission data in a completely new way, I found 6 potential new planets, and published my results for

Regeneron Science Talent Search. Along the way, I learned how to

PHYSICS CLUB

Activities Director | May 2020 - present

President | August 2019 - May 2020

- As President, with reorganization, new activities, and outreach, I grew a struggling club of 5 members into a thriving one with more than 30 active members. I run demos and experiments at meetings, organize tutoring and test prep sessions for every physics class, and lead a program to help students study Electricity & Magnetism beyond the classes at school.
 - I managed communications between student admin team and school administration.
 - Planned and scheduled club events, led general meetings.
 - Through online learning, I helped set up and run a Discord server for over 100 physics students as a place where they could find tutors, get help when needed, and discuss physics.

HOMESTEAD ATHENA



President, Development Lead | May 2019 - present Academic Center Tutor | September 2017 - present

Academic Center and Athena provide peer tutoring and mentorship to foster academic development in all subject areas. It's open to everyone and helps both tutors and tutees learn and improve their communication skills.

I tutored students in math, science, and history. When we moved to remote learning, I led the development and organization of Academic Center's new online platform Athena, which is now a major academic support resource for students. I designed and coded the site, and worked with staff and other students to expand access to tutoring and mentorship. Next step: working with my school district to expand Athena and bring tutoring and support to more schools!

STAR GLOVE STUDIOS



Director, Production Team, Art Department Lead, Researcher, Editor | August 2019 - present

I co-lead a small studio with an international team of student history enthusiasts. . We have 2 developing projects: The Vienna Contract, a political thriller radioplay set in pre-WWI Vienna, & Time Capsule, a comedic podcast hopping through fun facts and department, I designed art concepts, researched, & managed the team, drawing inspiration from period fashion, architecture, and design. As leader of the organization Starglove Studios, I help all our project teams whenever they need it as well.