5819 Sterling Greens Cir., Pleasanton, CA 94566 | 408-464-5891 | aren3@jhu.edu

EDUCATION

Johns Hopkins University

Baltimore, MD

Bachelor of Science in Mechanical Engineering, Minor in Mathematics

Expected May 2024

- GPA: 3.98/4.0, Dean's List Fall 2020, Fall 2021
- Relevant Coursework: Statics & Mechanics of Materials, Mechanics Based Design, Design & CAD, Electronics & Instrumentation

Foothill High School Pleasanton, CA High School Diploma May 2020

GPA: 4.4/4.0

Awards and Honors: AP Scholar with Distinction, National Merit Finalist

COURSE PROJECTS

MechE Freshman Lab II Design Project, Johns Hopkins University, Department of Mechanical Engineering

May 2021

- Built a set of active dioramas portraying scenes in an original story using Arduino components
- Created a journal containing design ideas and drawings
- Worked with group of four to develop story and ideas for each scene

MechE Freshman Lab I Design Project, Johns Hopkins University, Department of Mechanical Engineering

Dec 2020

- Designed and constructed device to catch, transport, and release an egg two inches vertically and six inches horizontally without an external power source
- Created hand drawings and prototypes of device
- Collaborated in group of three to develop set of devices that worked together consecutively

WORK EXPERIENCE

Research Assistant Nov 2021 – Present

Fluid Transport Lab at Johns Hopkins University

Baltimore, MD

- Design and construct structures using 80/20 for experiments on particle-bubble interaction
- Assist graduate researcher in experimental setup and data collection for particle-bubble interactions

ACTIVITIES

Propulsion Subsystem Engineer

Sep 2020 - Present

AstroJays Rocketry Team at Johns Hopkins University

Baltimore, MD

- Build CAD models of structures and components such as valves and ox-tank structure in SolidWorks
- Design and machine support structures for valves and tubing for ox-tank structure

Varsity Team Student-Athlete

Sep 2020 – Present

Men's Varsity Swim Team at Johns Hopkins University

Baltimore, MD

Pleasanton, CA

Commit over 20 hours per week to training and competitions while balancing academics

Engineering Subgroup Member Promoting Leadership in Aspiring Youth Foundation

Sep 2017 - Aug 2020

- Led subgroup as president for one year and treasurer for one year
- Organized and led hands-on engineering camps for kids
- Introduced new projects such as bridge building to engage kids in engineering

Pleasanton Seahawks Swim Team

Sep 2010 - Aug 2020

Pleasanton, CA

Competed as part of Pleasanton Seahawks Junior National Team

Three-time USA Swimming Scholastic All-American

SKILLS

Club Swimmer

- Technical: SolidWorks, MATLAB, Microsoft Excel, Python
- Languages: Mandarin