

Alex Ren

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

EDUCATION

Johns Hopkins University

Bachelor of Science, Mechanical Engineering

Baltimore, MD

Expected May 2024

- Minor in Mathematics
- GPA: 3.8/4.0, Dean's List – Fall 2020, Fall 2021
- Relevant Coursework: Statics & Mechanics of Materials, Mechanics Based Design, Design & CAD, Electronics & Instrumentation

Foothill High School

High School Diploma

Pleasanton, CA

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 that portray scenes in an original story using Arduino components
- Created a journal containing design ideas and drawings

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

WORK EXPERIENCE

Research Assistant

Nov 2021 – Present

Fluid Transport Lab at Johns Hopkins University

Baltimore, MD

- Design and construct structures for experiments on particle-bubble interaction and assist in experimental setup and data collection

ACTIVITIES

Propulsion Team Member

Sep 2020 – Present

AstroJays Rocketry Team at Johns Hopkins University

Baltimore, MD

- Build CAD models of structures and components in SolidWorks, design structures for cold flow tests, machine parts for structures

Varsity Team Student-Athlete

Sep 2020 – Present

Men's Varsity Swim Team at Johns Hopkins University

Baltimore, MD

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

Engineering Subgroup Member

Sep 2017 – Aug 2020

Promoting Leadership in Aspiring Youth Foundation

Pleasanton, CA

- Subgroup treasurer for one year and president for one year
- Organized and led hands-on engineering camps for kids
- Introduced new projects for kids to enjoy and experience engineering

Club Swimmer

Sep 2010 – Aug 2020

Pleasanton Seahawks Swim Team

Pleasanton, CA

- Competed as part of Pleasanton Seahawks Junior National Team
- Three-time USA Swimming Scholastic All-American
- Scored 96 points for team to first place finish at 2017 CA-NV Speedo Sectionals

SKILLS

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