

RAINE Z CHENG

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EDUCATION

Duke University – Mechanical Engineering

GPA: 3.85

QuestBridge Scholar

Relevant Coursework: Engineering Design & Communications Course, Computing for Engineers

Durham, NC

2024 - May 2028

ʻIolani High School

Valedictorian with Cum Laude Distinction, GPA: 4.0, SAT Score 1540

Honolulu, HI

2020 – June 2024

EXPERIENCE/PROJECTS

Duke Robotics Club:

Researched and designed custom mounts, L-brackets, and torpedo launchers for an Autonomous Underwater Vehicle

Durham, NC

Aug 2024 - Present

Large-Scale Buzz Wire Maze:

Designed a Buzz Wire Maze game for use in educational showcases to introduce basic circuitry to middle schoolers

Durham, NC

Aug 2024 - Aug 2025

High School Robotics:

Community Drone Project: Designed a custom drone using 3D-printing and wood; engaged with middle school students to create custom gliders that were launched from the drone

Honolulu, HI

Aug 2022 – May 2023

Electric Dirt Bike: Researched and designed the kickstand, footpegs, and welding jigs

Aug 2023 – May 2024

Science Olympiad Team: Co-Captain, Volunteer

2024 Science Olympiad Nationals Medalist; Competed in biology, chemistry, and physics events; Organized team-building events; Volunteered at competitions as a supervisor and grader

Honolulu, HI

Aug 2022 – May 2024

National Chinese Honor Society: President

Hosted member meetings, planned the induction ceremony, oversaw community service projects, and addressed Chinese tutoring needs from lower classmen

Honolulu, HI

Aug 2023 – May 2024

SKILLS

- Engineering Skills: Onshape, SOLIDWORKS, FDM 3D printing, waterjet cutting, lathe, Automated CNC milling, Soldering, Basic Workshop Tools
- Programming Languages: Python, C++ (Arduino)
- Languages: English (Fluent), Mandarin (Semi-Conversational), Cantonese (Conversational)
- Adept with Microsoft Office Suite and Google Workspace