Aaron Huang

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EDUCATION

Olin College of Engineering | Bachelor of Science in Mechanical Engineering   May 2024
- Recipient of 50% Tuition Merit Scholarship   4.00 GPA

SKILLS

Software: Python 3, MATLAB, Arduino, Markdown, Blender, Latex

Mechanical: FDM 3D Printing, SolidWorks 2019, Fusion 360, Soldering, Construction Equipment (Table Saw, Angle Grinder, Compound Single Bevel Saw, Reciprocating Saw, Nail Gun), Laser Cutter, Belt/Disc Sander, Sand Blaster, MIG Welding, Vertical Band Saw, Drill Press, Lathe, Mill, CNC Mill

Other: GitHub, Photoshop, Illustrator, PrusaSlicer, Cura, Mandarin

EXPERIENCE

Olin College BAJA SAE: Build an off-road vehicle for competition   2020 – Present
Co-Lead (2021) & Drive Train Member
- Manage sub-team with two other co-leads
- Work with components that deliver power to the driving wheels such as the half-shafts, intermediate, and input shafts for the gearbox
- Creating SolidWorks CAD models, drawings and designing for four-wheel drive (differentials, gearbox layout)

Olin College Rocketry Club: Build a rocket for competition and launch to an apogee of 10,000 ft   2020 – Present
Engine Project Manager: 2021-Present
- Multi-year project to create and test model rocket engines
  - Test Stand: finalized CAD model and drilled and welded test stand
Propulsion Member: 2020-2021
- Burn and Apogee Simulations for model rockets
- Fusion CAD Modeling, Drawings, and FEA: engine casing, bulkhead, and nozzle cap

Software Project: Personal Voice Assistant   Winter 2021
- Can tell you the current weather, jokes, buy items from Amazon, and more
- Coded in Python 3 and powered by Google's speech recognition and text-to-speech software

Mechanical Project: VR Car   Fall 2021
- (As a team of 5) Remote-controlled car where the user can view around from it in real-time VR in all 360 degrees
- Designed in SolidWorks, 3D printed and laser cut custom parts
- Created and implemented battery circuitry

Software Project: Ultimate Snake Game   Spring 2021
- (As a team of two) Snake game with speed and invisibility potions with all custom assets
- Coded in Python 3 and pygame

Mechanical Project: Smart Light Switch   Spring 2021
- Bluetooth-capable mechanical device to toggle a light switch
- Coded with Arduino Nano 33
- Designed in SolidWorks and 3D printed parts

Mechanical Project: Utility Knife   Fall 2020
- Custom utility knife
- Designed in SolidWorks and 3D printed parts using ABS

Software Project: Prize Wheel   Summer 2020
- Custom virtual prize wheel
- Prize options can be changed and can be set to land on your option of choice
- Coded in Python 3 and pygame