

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	3.92 GPA

SKILLS

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

Mechanical: 3D Printing (FDM/SLA), SolidWorks 2021, 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, IdeaMaker, Cura, Mandarin

EXPERIENCE

Mechanical Engineering Co-op @ Product Insight: Product research and development	May 2022 – Present
<ul style="list-style-type: none">• Collaborated on multiple projects in teams ranging from 2-6 people• Designed various parts in SolidWorks and assembled prototypes• Prototype testing and solving complex problems• Managed & maintained 3D Printer and advised others on making parts printable	
Olin College BAJA SAE: Build an off-road vehicle for competition	2020 – Present
Co-Lead (2021) & Drive Train Member	
<ul style="list-style-type: none">• 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	
<ul style="list-style-type: none">• Multi-year project to create and test model rocket engines<ul style="list-style-type: none">◦ Test Stand: finalized CAD model and drilled and welded test stand	
Propulsion Member: 2020-2021	
<ul style="list-style-type: none">• Burn and Apogee Simulations for model rockets• Fusion CAD Modeling, Drawings, and FEA: engine casing, bulkhead, and nozzle cap	
Huang MJ Construction: General construction/demolition work	2018-Present
<ul style="list-style-type: none">• Managed 3 members doing demolition work (Summer 2021)• Scheduled appointments with clients, dumpster, and concrete companies• Operated Bobcat E26 Excavator and S550 Skid-Steer Loader	
Mechanical Project: VR Car	Fall 2021
<ul style="list-style-type: none">• (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
<ul style="list-style-type: none">• (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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Custom utility knife• Designed in SolidWorks and 3D printed parts using ABS	