

Justin Yaung

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EDUCATION

University of Colorado Boulder

Bachelor of Sciences in Aerospace Engineering — GPA: 3.93

Boulder, CO

Aug. 2025 – May 2028

PROFESSIONAL EXPERIENCE

Teaching Head

ByteBuilders

Dec. 2023 – Jan. 2025

San Jose, CA

- Managed and developed a team of 12 junior volunteers
- Provided free STEM education to over 500 elementary and middle school aged students
- Raised over \$5000 through donation campaigns and marketing

RELEVANT EXPERIENCE

Model and Hybrid Rocket Propulsion and Flight Simulation

University of Colorado Boulder

Aug. 2025 – Dec. 2025

Boulder, CO

- Designed and launched a model rocket with flight trajectory prediction modeling in Excel
- Conducted test hybrid rocket engine hot-fire with thrust prediction modeling, compared against tracked data

Aircraft Structures Engineer

Design Build Fly @ CU

Aug. 2025 – Current

Boulder, CO

- Designed and modeled an RC airplane fuselage in Fusion360, optimized for aerodynamics within a mass/volume budget
- Created G-Code and used hotwire CNC to cut RC airplane wings and tail, with control surfaces and spars
- Physically assembled and wired fuselage, wings, and tail

Structures and Systems Engineer

Design Build Fly @ CU

Aug. 2025 – Current

Boulder, CO

- Developed project scheduling with Gantt charts to coordinate design, manufacturing, and testing phases
- Coordinated subsystem interfacing and verified integration
- Produced technical reports and documentation summarizing design and test processes
- Designed and modeled a rover chassis in Fusion360, optimized within a mass/volume budget
- Physically assembled rover chassis and suspension

PROJECTS

5" Freestyle FPV Drone | *CAD, Soldering*

June 2026 – Present

- Designed and modeled a RC Drone using Fusion360
- Chose electronic components based on motor power draw and amperage requirements
- Soldered wiring to ESC and FC

TECHNICAL SKILLS

Programming: Java, Python, MatLab

CAD and Manufacturing: Fusion360, Solidworks, 3D printing, CNC Machining

Hardware and Electronics: Arduino, Servos, Sensors, Soldering