

## Jason Feldkamp

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### EDUCATION

**University of California, Los Angeles**

*Expected Graduation Date: June 2021*

Bachelor of Science, Aerospace Engineering

**GPA: 4.00**

### INTERNSHIP

**Mechanical Design Intern | Precision Flight Controls, Inc**

*June 2018 - August 2018*

- Designed a Boeing 737 column yoke with force-feedback control loading for use in FAA FFS Level D flight simulators
- Directed the ordering of components, machining, and assembly of the yoke for commercial use

### PROJECT EXPERIENCE

**Recovery Subteam Chief Engineer | Rocket Project at UCLA**

*September 2017 - Present*

- Designed and built a dual deployment parachute recovery and payload ejection system for a high-powered hybrid rocket for the Intercollegiate Rocket Engineering Competition (IREC)
- Led static tests of recovery systems (altimeters, black powder, CO<sub>2</sub>, and body tube separation)
- Used MATLAB to calculate rocket descent velocity and energetics mass to perform trade studies on parachutes, parachute bays, and shear pins

**Scratch built Remote Controlled Planes and Quadcopters**

*2012 - 2017*

- Soldered and assembled motors, electronic speed controllers, power distribution boards, cameras, video transmitters, and flight controllers to build multiple competitive FPV racing drones
- Designed, produced, and sold carbon fiber composite quadcopter frame kits for FPV racing drones
- Designed, built, and flew remote-controlled airplanes constructed from foam board, balsa wood, and composite materials

**Business and Outreach Officer | Rocket Project at UCLA**

*September 2017 - Present*

- Organized education outreach events to promote STEM education to underrepresented elementary and middle school students in the Los Angeles area

### AWARDS / HONORS

UCLA Dean's List

*Fall 2017, Winter 2018, Spring 2018, Summer 2018*

2<sup>nd</sup> Place at IREC SRAD Hybrid/Liquid Rocket Competition

*June 2018*

UCLA Regents Scholar (\$8,000 scholarship, awarded to top 1.5% of UCLA students)

*May 2017*

UCLA Alumni Scholars Club National Winner (\$20,000 scholarship)

*April 2017*

Bella Vista High School Valedictorian Scholar (4.60 GPA)

*June 2017*

### RELEVANT SKILLS

AutoDesk Fusion 360 | Solidworks | 3D Printing | Machining | MATLAB | Simulink | Feedback and Control Systems | Aerodynamics | Rocket Design | MS Excel | MS Word | Microsoft Office Suite | Systems Engineering

### WORK EXPERIENCE

**Lifeguard and Swim Instructor | Spare Time Aquatics**

*May 2015 - August 2018*

- Taught swim technique to children ages 2-18, lifeguarded, and performed maintenance duties

**Assistant Swim Coach | Gold River Stingrays Swim Team**

*May 2017 - August 2018*

- Coached competitive swimmers ages 7-18, led team to a Northern California Conference Championship