

Chance Krenzer

Los Angeles, California | 818-268-7308 | chance.krenzer@gmail.com | [linkedin.com/in/chance-krenzer](https://www.linkedin.com/in/chance-krenzer)

EDUCATION

Case Western Reserve University, Class of 2029

Cleveland, Ohio

BS, Mechanical Engineering | BS, Aerospace Engineering

Deans High Honors List, Cumulative GPA: 4.00/4.00

Harvard-Westlake School, Class of 2025

Los Angeles, California

National Merit Scholar, Dean's List, Captain - Varsity Track Team, Presidential Gold Volunteer Service Award (2023)

EXTRACURRICULAR INVOLVEMENT

CWRU Vertical Take-Off and Landing Team (2025 1st Place Championship)

Cleveland, Ohio

Mechanical Team Specialist

August 2025 - Present

- Designed and fabricated a payload pickup and release mechanism that enabled reliable autonomous operation by tolerating positional and alignment error.
- Worked with a team to CAD and fabricate a jig to precisely epoxy an aluminum motor mount to a carbon fiber arm for an X8 configuration of the competition drone.
- Manufactured aluminum motor mount parts using the CNC waterjet and belt sander and mill.

Mechanical Design Lead: High Speed Quadcopter

- Led a team of engineers to create a high speed quadcopter with a goal of 500kph
- Designed the frame parametrically to run flow simulations to determine the best configuration for minimal drag while still retaining enough strength for the high speed runs
- Determined necessary electronics and their mounting and submitted a BoM for team funding

CWRU Varsity Cross Country/Track and Field

August 2025 - Present

PROJECTS

ESP32 Drone

December 2025 - February 2026

- Researched and sourced motors, sensors and other components and designed wiring diagrams for a custom motor driver and IMU. Learning PCB design to transfer components to a singular circuit board.
- Used CAD to 3D print a PETG frame and used Solidworks FEA to ensure the arms and body could withstand motor induced loads while maintaining a 2:1 thrust to weight ratio.
- Wrote and tuned a custom flight software using a PID controller in Arduino.

CWRU Hackathon - 4th Place

November 2025

- Built a robotic hand controlled wirelessly by electromyography and wrote the code for the transmitter and receiver
- Created the fingers and palm in solidworks and used mechanical mates to model the movement before printing

EMPLOYMENT HISTORY

LADWP Internship

May 2026 - Present

Distributed Energy Resource Management Systems Fellowship

- Worked within a team to understand and then design solutions for current influx of distributed energy resources and the gaps that they create for grid operators
- Specialized in the software and platforms for DERMS and worked with a group to create a summary presentation

YMCA of Metropolitan Los Angeles

Lifeguard and Swim Instructor

June 2024 - September 2024

- Instructed and supervised children ages 4–12 during swim lessons, adapting teaching methods to different skill levels and learning styles.

SKILLS

CAD – Solidworks, Parametric Design, PDM, Solidworks Simulations

Programming – Java, MatLab, C, Python, Arduino

Manufacturing – CNC waterjet, MIG & TIG Welding, Mill, Lathe, Laser Cutter, 3D Printer, Soldering

Microsoft Office – Excel, Outlook, Word, PowerPoint