

# CJ Kennedy

## EDUCATION

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**Bachelor of Science in Aerospace Engineering Sciences**, The University of Colorado Boulder.  
Minor in Computer Science. **GPA: 3.64** (maintained while working 20 hours/week)

Graduated: **May 2023**

## RELEVANT SKILLS

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**Languages:** C++ • C • Python • Matlab • Arduino • HTML • MySQL

Git • LaTeX • Visual Studio • MS Office (Excel) • Linux • Windows OS • NoSQL • MongoDB

## HIGHLIGHTED COURSEWORK

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**Aero:** Aircraft Dynamics/Controls, Material Sciences and Structures, Propulsion, Electronics & Communication

**CS:** Data Science, Database Systems, Data Structures, Algorithms

## TEAM PROJECTS

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**Ball Aerospace - NanoSAM4** • Aug 2022 - May 2023 • [Repo](#) • *Embedded Systems Engineer Lead*

- Led detailed design of CubeSat embedded software and satellite bus integration software.
- Testing and validation of SPI between an ADC and microcontroller. C++ and Matlab implementation.
- AIAA paper and conference, senior symposium poster and presentation, and other formal reviews.

**Rocket Lab** • Mar - Apr 2022 • *Software Simulation*

- Designed a water bottle rocket, analyzed flight predictions, and estimated errors of multiple rocket models in Matlab.

**Glider Design and Performance** • Jan - Feb 2021 • *Design Engineer*

- Analysis of the lift, drag, and other performance characteristics of a glider. Designed, fabricated, and tested a prototype.

**Sounding Weather Balloon Satellite Payload** • Aug - Dec 2019 • *Software and Systems Lead*

- Implemented four Radiation Watch Pocket Geigers to collect data concurrently.
- Worked with CU Boulder's Office of Environmental Health and Safety Lab and their Cesium-137 beam.
- Technical writing with test data analysis, formal presentation, and winner of design expo.

## ACADEMIC PROJECTS

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**Data Science/Analysis** • Sep - Dec 2022 • [Repo](#)

- Variety of Python scripts analyzing data to reach conclusions using NumPy, Pandas, SciPy, and the StatsModel API.

**Aerodynamic Computational Assignments** • Jan - May 2022 • [Repo](#)

- Variety of Matlab scripts calculating and visualizing simplified aerodynamics.
- Analysis of flow around various airfoils, simulated performance, and various definite integral approximations.

**Orbital Mechanics Constellation Design** • Dec 2021 • [Repo](#)

- Matlab simulation of a constellation of spacecraft in various orbits and their line of sight to various cities.

## OTHER RELEVANT EXPERIENCE

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**Supervisor at AMC Theaters** • 2021 - Jan 2022 • *Leadership*

- Managing and supporting a diverse team of 20+ and focusing on communication and adaptability.
- Customer support and conflict resolution, cash handling/deposits, and system & inventory management.

**Effective Bystander Intervention Strategies Technical Training** • 2022 • *Interpersonal*

- Attended CU Boulder OIEC intervening training focusing on nondiscrimination in the workplace.

**Crew Leader at AMC Theater** • 2019 - 2020 • *Leadership*

- Focused on inclusivity with a crew of 15+ and patiently training new hires on crucial skills.

**Internship at Recording Studio: Coupe Studios** • Oct - Dec 2018 • *Interpersonal*

- Aided with servicing equipment, fulfilling customer requests, and adapting to a fast-paced environment.