

CJ Kennedy

EDUCATION

Bachelor of Science in Aerospace Engineering Sciences, The University of Colorado Boulder. Expected: **May 2023**
Minor in Computer Science. **GPA: 3.64** (maintained while working 20 hours/week), Deans List 3 Semesters

RELEVANT SKILLS

Languages: C++ • C • Python • Matlab • Arduino • HTML • MySQL
Git • LaTeX • Visual Studio • MS Office (Excel) • Linux • Windows OS

HIGHLIGHTED COURSEWORK

Aero: Aircraft Dynamics/Controls, Material Sciences and Structures, Propulsion (current), Electronics & Communication
CS: Data Science, Database Systems (current), Data Structures, Algorithms

TEAM PROJECTS

Ball Aerospace - NanoSAM4 • Aug 2022 - Present • [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

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

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.