

# Caden R. Carlson

Aerospace Engineering, Gore Scholar at Wichita State University  
cadencarlson.com || cadencarlson1@gmail.com || (402) 604 - 4043

## EDUCATION

### Wichita State University

Wichita, KS

*Pursuing Bachelor of Science degree in Aerospace Engineering (Minor in Mathematics)*

*Class of 2026*

GPA: 3.83/4.00

- Awarded both the Gore and Wallace Scholarships for excellence in leadership and engineering
- Relevant Coursework: Digital Computation (MATLAB), Flight Dynamics & Control, Flight Structures II, Aero Propulsion, Aerodynamics II, Differential Equations, Engineering Graphics (CATIA V5, GD&T)

## EXPERIENCE

### Carlson CAD

Aurora, NE / Wichita, KS

*Owner and Operator*

*May 2019 – Present*

- Utilized computer-aided design and additive manufacturing to serve clients across the United States
- Rapidly developed CAD drawings to fit client deadlines
- Created invoices and other administrative documents to organize my business

### Experimental Methods Special Project

Wichita, KS

*Project Lead*

*January 2025 – Present*

- Led the development and testing of a rotating cylindrical leading edge to quantify the benefits of the magnus effect on finite wings
- Gained extensive experience in wind tunnel testing and aerodynamic research

### Wichita State University Athletics Department

Wichita, KS

*Tutor*

*August 2022 – Present*

- Worked with peers as they built confidence in their classwork
- Classes tutored include Physics I & II, College Algebra, and Calculus I & II

### Traudt Aerial Service

Aurora, NE

*Aircraft Ground Maintainer*

*May 2024 – August 2024*

- Aided in 100-hour inspections, propeller balances, and general maintenance for piston and turboprop engines
- Maintained two workhorse AT-802s, two agile AT-602s, a powerful AT-502XP, and a small but mighty PA-36
- Excelled in the high pace, pit-stop-like environment of mixing and loading chemicals onto aircraft

### Grain Weevil Corp.

Omaha, NE

*Engineering Intern*

*January 2022 – August 2023*

- Led development of a proprietary depth camera using Microsoft drivers and C/C++
- Designed, produced, and evaluated prototypes of new robot features
- Pursued company goals in product testing, research, and development through FEA

## LEADERSHIP & INVOLVEMENT

### Wichita State University Track & Field

Wichita, KS

*Student-Athlete (Pole Vault)*

*August 2022 – Present*

- 2023 American Athletic Conference (AAC) Track and Field Champion
- Served as a voice for my teammates on the WSU Student-Athlete Advisory Committee (SAAC)
- Worked with peers across the country to better our conference as a member of the AAC SAAC executive board

## SKILLS

**Computer Programming:** Proficient in Python, C/C++, and MATLAB – Experience in LabVIEW, JavaScript, and HTML

**CAD/Simulation Software:** Proficient in CATIA V5 and Fusion 360 – Experience in Nastran, Creo, NX, and Ansys Simulation

**Software Tools:** Proficient in Microsoft Word, Microsoft Excel, and GitHub – Experience in Squarespace Domains

**Technical:** Proficient in forklift operation, power tool use, and agricultural equipment maintenance