

# Caden R. Carlson

Aerospace Engineering, Gore Scholar at Wichita State University  
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## 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

### Textron Aviation Defense and Special Missions

Wichita, KS

*Structures Intern*

*May 2025 – Present*

- Executed a root cause investigation of unexpected cracking found on a full-scale test article
- Owned multiple projects to analyze and substantiate repairs completed by aircraft mechanics in the field

### Wichita State University Athletics Department

Wichita, KS

*Tutor*

*August 2022 – Present*

- Tutored Physics I & II, College Algebra, and Calculus I & II

### Carlson CAD

Aurora, NE / Wichita, KS

*Owner and Operator*

*May 2019 – May 2025*

- Utilized computer-aided design and additive manufacturing to serve clients across the United States
- Created invoices and other administrative documents to organize my business

### Experimental Methods Special Project

Wichita, KS

*Project Lead*

*January 2025 – May 2025*

- Led the development and testing of a novel test article to quantify the benefits of the magnus effect on finite wings
- Gained extensive experience in wind tunnel testing and aerodynamic research

### Traudt Aerial Service

Aurora, NE

*Aircraft Ground Maintainer*

*May 2024 – August 2024*

- Collaborated on 100-hour inspections, propeller balances, and general maintenance of piston and turboprop engines
- Excelled in the high pace, pit-stop-like environment of prepping, mixing, and loading chemicals onto aircraft

### Grain Weevil Corp.

Omaha, NE

*Engineering Intern*

*January 2022 – August 2023*

- Owned the development and implementation of a proprietary depth camera using Microsoft drivers and C/C++
- Pursued company goals in product testing, research, and development through FEA
- Hold US Patents: US20250060760A1 and US20240408754A1 (pending)

## LEADERSHIP & INVOLVEMENT

### Wichita State University Track & Field

Wichita, KS

*Student-Athlete (Pole Vault)*

*August 2022 – Present*

- Worked with peers across the country as vice-chair of the American Conference Executive Board
- Served on Division I SAAC as the representative for over 7,000 American Conference student-athletes

## SKILLS

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

**CAD/Simulation Software:** Proficient in CATIA V5, Fusion 360, NASTRAN, Patran, and Femap – Experience in Creo

**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