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*
- Awarded both the Gore and Wallace Scholarships for excellence in leadership and engineering — GPA: 3.83/4.00
- 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*
- Completed a root cause investigation of unlooked for 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*
- Classes tutored include 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*
- Aided in 100-hour inspections, propeller balances, and general maintenance of piston and turboprop engines
- 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, developed, 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*
- 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