Caden R. Carlson Aerospace Engineering, Gore Scholar at Wichita State University [cadencarlson.com](http://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*

* 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

**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