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, Introduction to CFD, Differential Equations, Engineering Graphics (CATIA V5, GD&T)

EXPERIENCE

**National Institute for Aviation Research – Walter H. Beech Wind Tunnel Wichita, KS**

*Student Assistant August 2025 – Present*

* Designed, manufactured, and installed test article apparatuses to meet customer needs
* Supported calibration, data collection, and data analysis efforts utilizing state-of-the-art equipment
* Effectively operated the wind tunnel to reach customer requirements and company safety standards

**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

**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++
* Hold US Patents: [US20250060760A1](https://patentimages.storage.googleapis.com/e6/a0/63/9e841119bb2ce7/US20250060760A1.pdf) and [US20240408754A1](https://patentimages.storage.googleapis.com/37/56/9b/2353307123339b/US20240408754A1.pdf) (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