

GRIFFIN C. BRAUNREITER

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EDUCATION

Northwestern University, Evanston, IL

June 2026 | Engineering GPA: 3.5

Bachelor of Science in Mechanical Engineering, Concentration in Aerospace

Double Major in Economics; Dean's List Winter 2026

SKILLS

CAD/CAE: SOLIDWORKS, Siemens NX, ANSYS, Autodesk Inventor, Altair Inspire

Programming: MATLAB, Python, Java

Design & Analysis: FEA (ANSYS, SOLIDWORKS), Fatigue Analysis, Topology Optimization (Altair Inspire), CFD (ANSYS)

Manufacturing: CAM (Siemens NX), CNC Milling, GD&T

ENGINEERING WORK EXPERIENCE

Deublin Company, Waukegan, IL

June 2025 – September 2025

Manufacturing Engineering Intern

- Designed and implemented 4 custom manufacturing fixtures and 2 modular storage systems using Autodesk Inventor, reducing assembly steps by 10% across 4 high-mix production lines.
- Collaborated with cross-functional engineering teams to identify and implement process optimizations across 11 workstations to decrease tool set up time by 30%.
- Conducted floor audits to decrease necessary workstation space by 5% and improve overall operational efficiency.

PROJECTS

Northwestern Baja Society of Automotive Engineers, Evanston, IL

Chief Engineer and Executive Team

May 2025 – May 2026

- Oversaw the design and assembly process of the 2026 NU Baja vehicle, managing an 80-member organization across 5 subteams with full responsibility for timeline and technical direction.
- Led cross-functional design integration through structured design reviews for all vehicle components to ensure cohesion across competing constraints.
- Served as technical head of the 8-person executive board, driving strategic decisions on vehicle architecture and competition preparation.
- Co-authored the team's first comprehensive technical standards document, establishing best practices adopted across all 5 subteams for future design cycles.

Suspension Subteam Lead and Executive Team

May 2024 – May 2025

- Directed a 14-member team in designing and fabricating the suspension and brakes subsystem of the 2025 NU Baja vehicle.
- Developed suspension geometry using Lotus Shark and Optimum Kinematics to achieve neutral Ackermann and minimal bump steering.
- Decreased turning radius by 4ft and maintained corner weight despite increased load cases.
- Maintained a detailed dynamic SOLIDWORKS suspension assembly to guide design and manufacturing decisions.
- Managed a Notion-based tracking system to oversee subteam deadlines and the organization of 150 components.

Ergonomics Subteam Lead and Executive Team

May 2023 – May 2024

- Led a 9-member team in designing a flexible ergonomic system to accommodate team drivers ranging from 5'2" to 6'3".
- Machined custom steering system components via CNC using SOLIDWORKS and Siemens NX CAM.
- Directed subteam meetings and managed project timelines to meet design goals and achieve full assembly 1 week ahead of schedule.

Powertrain Subteam Member

September 2022 – May 2023

- Developed the team's first-ever brake line routing system in SOLIDWORKS.
- Contributed to the fabrication and assembly of the 2023 NU Baja vehicle.
- Refurbished and maintained previous years' vehicles for testing and competition.