

GRIFFIN C. BRAUNREITER

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EDUCATION

Northwestern University, Evanston, IL

Expected June 2026 | GPA: 3.19

Bachelor of Science in Mechanical Engineering, Concentration in Aerospace

Double Major in Economics

RELEVANT COURSEWORK

- Mechanical Vibrations
- Heat Transfer
- Thermodynamics
- Stress Analysis
- Machine Dynamics
- Fluid Mechanics

SKILLS

SOLIDWORKS, Siemens NX, ANSYS, Autodesk Suite, MATLAB, Java, Python, CNC Machining

ENGINEERING WORK EXPERIENCE

Deublin Company, Waukegan, IL

June 2025 – September 2025

Manufacturing Engineering Intern

- Design custom fixtures and modular storage systems in Autodesk Inventor to support high mix manufacturing and assembly operations
- Collaborate with cross-functional engineering teams to identify and implement process optimizations across the shop floor
- Conduct floor audits to improve tooling workflows, workstation layout, and overall operational efficiency

ENGINEERING PROJECTS

Northwestern Baja Society of Automotive Engineers, Evanston, IL

Chief Engineer and Executive Team

May 2025 – Present

- Oversee the full design and assembly process of the 2026 NU Baja vehicle, including team structure, project planning, and milestone tracking
- Lead cross-functional collaboration across five subteams to ensure design cohesion and integration
- Provide engineering design input during design reviews for all vehicle components
- Co-authored the team's first comprehensive technical standards document, establishing best practices for future designs
- Participate in strategic decision-making and long-term planning as head of the executive board

Suspension Subteam Lead and Executive Team

May 2024 – May 2025

- Directed a 14-member team in designing and fabricating the suspension subsystem of the 2025 NU Baja car as part of a 70-member organization
- Developed suspension geometry using Lotus Shark and Optimum Kinematics to achieve neutral Ackermann and minimal bump steering
- Maintained a detailed SOLIDWORKS suspension assembly to guide design and manufacturing
- Managed a Notion-based tracking system to oversee subteam deadlines and organization

Ergonomics Subteam Lead and Executive Team

May 2023 – May 2024

- Led a 9-member team in designing a flexible ergonomic system to accommodate all team drivers
- Manufactured custom steering system components using SOLIDWORKS and Siemens NX CAM
- Directed subteam meetings and managed project timelines to meet design and production goals

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