

Anastazja Branski

Brookfield, Wisconsin 53005 (414)841-5510 anastazja.p.branski@gmail.com
anastazjapbranski.wixsite.com/digitalportfolio

Education

Master of Science, Engineering Design Innovation, March 2027
Northwestern University

Bachelor of Science, Mechanical Engineering, May 2025
University of Wisconsin-Madison
GPA 3.58/4.0

Relevant Coursework: Product Design, Dynamic Systems, Heat Transfer, Thermodynamics, Linear Algebra and Differential Equations

Study Abroad, Mechanical and Manufacturing Engineering, May 2024
Trinity College Dublin
GPA 3.63/4.0

Relevant Coursework: Mechanics of Machines, Manufacturing Systems and Project Management, Cultural Sustainability

Technical Skills

- CAD Software and Simulations (SolidWorks, AutoCAD)
- Rapid Prototyping (3D Printing, Laser Cutting, Woodworking, Sheet Metalworking)
- Programming (Python, MATLAB, EES, Excel, C, R-Studio)
- Artistic Abilities (Sketching, Painting, Design, Photography, Illustration)

Engineering Experiences

Carousel of Passion, Evanston, IL

Engineering Design Innovation Student, *September 2025*

- Designed a miniature motorized carousel to fit the prompt “True North: From wherever you are, to wherever you’re going”
- Used rapid prototyping skills (Circuitry, 3D Printing, Laser Cutting, Sketching) to go from low-fidelity to final product

Buck-Up! Portable Seat Lift Device - Senior Design Capstone, UW-Madison

Student and Team Leader, *August 2024-May 2025*

- Designed a lightweight, power-independent seat lift enabling users with limited mobility to rise independently
- Built and tested CAD- and FEA-driven prototypes (3D-printed, wood, metal), integrating pneumatic springs and a torque-based lift mechanism, plus folding and locking features for portability and safety
- Delivered final prototype (<5 lbs., 20–30° lift, ~220 lb. capacity) and presented to faculty

Drone Design Optimization, UW-Madison

Mechanical Engineering Student, *December 2023*

- Utilized finite element analysis and design optimization features on SolidWorks to reduce the mass of a drone frame to 27.4% of the initial mass and maintained full functionality of the part
- Maintained the required mechanical properties, Factor of Safety, Maximum Stress, and Maximum Deflection before failure under hover and tilt load cases

Leadership Experiences

Segal Design Institute at Northwestern University, Evanston IL

Design Coach, *September 2025-Present*

- Mentor undergraduates in applying human-centered design to career and life planning
- Facilitate small-group discussions and workshops, guiding students through ideation, reflection, and iteration
- Guide students in developing and presenting clear, compelling design concepts by delivering critiques and coaching communication skills

Badgers In Themed Entertainment, Madison WI

Communications and Outreach Officer, *November 2024-May 2025*

- Led a track design team for a scaled down rollercoaster that will be built and showcased to students
- Sent out weekly emails and engaging social media posts to organization members about status updates
- Led organization for larger community and outreach events

Optima Dance, Madison WI

Dancer and Choreographer, *September 2021-April 2025*

- Choreographed and taught tap dances and organized college-level dancers for performances each semester