

# Anastazja Branski

## Design Engineer

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Driven by design and fueled by function, I bridge technical precision with creativity and scrappiness to bring bold ideas into reality. I design immersive products and experiences that blend technical rigor within stories, creating moments of wonder for people of all abilities.

### Education

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

GPA 4.0/4.0

Bachelor of Science, Mechanical Engineering, May 2025  
University of Wisconsin-Madison  
Relevant Coursework: Product Design, Kinematics, Dynamic Systems, Statics, Heat Transfer, Project Management, Sustainability

GPA 3.58/4.0

### Technical Skills

- CAD & Simulation: SolidWorks, AutoCAD
- Prototyping & Fabrication: 3D Printing, Laser Cutting, Woodworking, Circuitry
- Programming & Analysis: Python, MATLAB, EES, Excel, C, R-Studio
- Design & Visualization: Sketching, Illustration, Storyboarding, Photography, Figma, Adobe InDesign, Vizcom

### Professional Experience

Segal Design Institute at Northwestern University, Evanston IL

September 2025-Present

#### Teaching Assistant

- Guided 40+ total undergraduate students in human-centered design across personal, professional, and product-focused projects.
- Facilitated *Designing Your Life* and *Industrial Design Projects 1*, spanning projects from assistive devices to themed entertainment.
- Coached students in SolidWorks, sketching, storyboarding, and digital rendering, driving prototyping and design communication.

### Engineering Design Experience

Carousel of Passion, Evanston, IL

September 2025

#### Design Engineer

- Built a high-fidelity working miniature carousel in 3 days centered on a pre-assigned theme “True North.”
- Applied rapid prototyping methods (3D printing, circuitry, and laser cutting) to iterate from early concept to final product.

Buck-Up! Portable Seat Lift Device, UW-Madison

August 2024-May 2025

#### Team Leader

- Developed a lightweight, power-independent seat lift to help users with limited mobility stand discreetly without assistance.
- Calculated static and dynamic forces, applied standing kinematics, and tested prototypes in 3D printing, wood, and metal.
- Fabricated a final prototype under 5 lbs. and achieving a 20–30° lift range supporting up to 220 lbs.

Drone Design Optimization, UW-Madison

December 2023

#### Mechanical Engineer

- Reduced drone frame mass by 72.6% using SolidWorks design optimization tools while maintaining mechanical properties.
- Validated performance through finite element analysis under hover and tilt load conditions.

### Leadership Experience

Badgers in Themed Entertainment, Madison WI

November 2024-May 2025

#### Communications and Outreach Officer

- Demonstrated a pneumatic launch on a scaled-down rollercoaster to teach STEM and mechanical principles to children.
- Facilitated track design, layout, and fabrication, applying mechanical principles and dynamics for functionality.
- Coordinated workshops and events, boosting campus engagement by 200% and member participation through social media.

Optima Dance, Madison WI

September 2021-April 2025

#### Dancer and Choreographer

- Choreographed 5 dances and led dance rehearsals focused on synchronization, collaboration, and performance confidence.