

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 GPA 4.0/4.0
Northwestern University

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

Relevant Coursework: Product Design, Kinematics, Dynamic Systems, Statics, Heat Transfer, Project Management, Sustainability

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.