

Ashley Tumpowsky

ashleytumpowsky2025@u.northwestern.edu | (609)-664-6787 | ashleytumpowsky.com

EDUCATION

Northwestern University | Evanston, IL | Current GPA: 3.9/4.0

September 2021 - Present

McCormick School of Engineering, Segal Design Institute

- Major in Manufacturing & Design Engineering
- Includes coursework in mechanical and industrial engineering, with an emphasis on design

SKILLS

- CAD: Solidworks, Procreate, Keyshot
- Ansys Granta Material Analysis, MATLAB, Excel, the Adobe Suite, 3D printing, Mill, Lathe, Laser Cutter, and Sand Casting

DESIGN EXPERIENCE

Segal Design Institute | Evanston, IL

Teaching Assistant

January 2024 - Present

- Assisted Professor Greg Holderfield, Executive Director of the Segal Design Institute, as a Student Design Coach for Introduction to Industrial Design
- Advised a class of 18 students, helping them develop tactical sketching skills and gain comfortability with the generative ideation process

PantherTec | Evergreen, CO

Product Design and Development Intern

June 2023 - August 2023

- Worked alongside CEO to help soft launch the patented Kinesthetic Awareness Training (KAT) Device developed to improve movement accuracy in sport and rehab
- Tested use cases for the device via live demos with coaches, athletes, clinicians and patients
- Built devices by hand; flashing the PCB boards, 3D printing enclosures with the Anycubic resin printer, and assembling the hardware. Conducted quality control tests before shipping
- Optimized components of the device, such as modifying enclosure design to improve fit of internal elements and adding external accessories for easier attachment
- Researched, explored and created initial designs that would expand the functionality of the KAT in the future, allowing it to be used in new applications such as barrel racing or boxing

Design Thinking and Communications Projects | Evanston, IL

Lead designer, prototype creator, presenter

September 2022 - June 2023

- Participated in two, 10-week engineering courses focused on solutions to real-life problems
- Human-Centered Design Project: Worked with a client to design and prototype a device that enables people with diabetes to self-inject insulin into their upper arm without the help of others. Received “Best Communication” award for most effectively describing the problem and solution when presenting the device to professors and our client
- Whitespace Project: Surveyed 100 people to find unmet life needs and conducted research to narrow down responses to one which illuminates a gap in existing products. Devised and prototyped a new type of dog leash that combines aspects of retractable and standard leash designs to give dog walkers more control over their pet and prevent injuries

Architecture Independent Study | Princeton, NJ

High School Senior, Interest in Architecture Design

February 2021 - June 2021

- Worked with professor to create a curriculum focused on advanced architecture principles
- Created isometric and orthographic sketches, as well as two-point perspective drawings
- Utilized Autodesk Revit to build the projects and produce various renderings

LEADERSHIP

WNUR Sports | Evanston, IL

Editor-in-chief, podcast guest, broadcaster, engineer, radio show guest

September 2021 - Present

- Wrote, edited, and published game-recaps and feature articles for wnursports.com
- Did color commentary and play-by-play broadcasting for Northwestern Sports games

