

## Isabelle Mallwitz

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Winter Garden, FL and Evanston, IL

### Education

**Northwestern University**, Evanston, IL

*Bachelor of Science in Manufacturing and Design Engineering*

*Minor in Computer Science*

GPA: 3.94/4.00

Relevant Coursework: Design, Thinking, and Communication I&II, Engineering Analysis I-IV, Mechanics of Materials, Introduction to Solid Modeling, Electronics Design

June 2022,  
anticipated

### Engineering Experience

**Northwestern University, Design, Thinking, and Communication course**,  
Evanston, IL

*Client: Kate Drolet, Gait Therapist at the Shirley Ryan AbilityLab*

Spring 2019

- Designed a knee brace that could lock automatically when the knee straightens and unlock when the therapist pushes a switch, creating a way for the therapist to endure less physical toll throughout her day
- Built the brace mentioned above in the shop, ordering materials and working as a team to develop a working prototype that was given to the client to use during therapy

Fall 2018

*Client: Kids in Danger*

- Designed a system that allowed stroller users to hang bags on lighter (umbrella) strollers, allowing for a safer way to transport both children and belongings

### Leadership Experience

#### **Recruitment Chair**

*ResilientNU, Evanston, IL*

August 2019 -  
Present

- Marketed the organization across several platforms, helping to triple cohort sizes in one year
- Led communication with prospective members, organizing meeting times and ensuring a clear flow of information in and out of the organization

#### **Secretary, Publicity Board Member**

*Northwestern Chapter of the Society of Women Engineers, Evanston, IL*

March 2019 -  
Present

- Took minutes at every meeting and sent out emails with summaries and task lists, increasing accessibility for members on the executive board
- Developed logos and designs for merchandise and publicized internal events to increase member retention and spread awareness of the organization

#### **Math and Physics Tutor**

*NU|Tutors, Evanston, IL*

February 2019 -  
Present

- Assisted middle and high school students with math and physics courses, improving test and homework scores by one to two grade levels
- Communicated with clients to organize meetings and study plans

### Skills & Activities

- *Manufacturing*: experience in SolidWorks, shop-trained and familiar with tools like the vertical bandsaw, table saw, mill, and pneumatic nail gun, experience in wood-working
- *Computer Science*: proficient in MATLAB, some experience in Android App Development, some knowledge of Python, experience in HTML/CSS
- *Activities*: Society of Women Engineers, ResilientNU, tiilt lab, MakerGirl, Develop + Innovate for Social Change, The Muskwa Club Sentinel Project, Women in Computing