

# Marie Diffley

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## SUMMARY

B.S. Industrial Engineering student at Milwaukee School of Engineering with internship experience as a Process Engineer at HaF Equipment. Large interest in human-factors, automation technologies, and manufacturing processes. Looking for a full-time position following graduation in the Spring of 2027.

## EDUCATION

**B.S. Industrial Engineering | Technical Communication Minor** | Milwaukee School of Engineering |  
GPA: 3.82 | Expected May 2027

## TECHNICAL SKILLS

**Programming and Analytical Tools:** Python, VBA, MATLAB, Minitab, and OpenPLC

**Productivity and Data Skills:** MS Office, Excel, Data Analysis

## INTERNSHIP EXPERIENCE

**Process Engineering Intern** | HAF EQUIPMENT | Maplewood, Minnesota | May - August 2025

### Position Objectives:

- Crafted custom pneumatic conveying system business proposals for clients involving equipment analyses, cost development sheets, process flow diagrams, while coordinating third-party vendor quotes.
- Pitched system concepts to clients and coworkers to achieve purchase orders for high producing manufacturing companies.
- Analyzed crucial company-client relationship contracts such as NDAs and confidentiality agreements.

**Mentee** | TESLA CORP | Brooklyn Park, Minnesota | February - March 2023

I had the opportunity to work alongside Tesla employees and learn skills required to be a project manager and engineer. This internship doubled as a mentorship as I was able to observe and learn how to create project plans and layouts.

## PROJECT EXPERIENCE

**Ergonomic Design Project** | September 2025- December 2025 | Worked to design a custom mobility cart for warehouse maintenance personnel with below-knee amputation.

- Evaluated human factors model and conducted a workplace analysis to determine design criteria.
- Designed and pitched a custom cart to be used at the facility by our customer.

**Solid Modeling Project** | September 2023- December 2023 | Tasked with creating a device that allowed dog owners to pick up their pet's excrement without bending over or interacting with the material.

- During this project, I oversaw project design, construction, and testing.
- This project was concluded by a series of test trials to examine ergonomic nature of the product.
- The final project was tested by a potential customer and a finalist in consideration for a patent.

## RELEVANT COURSE WORK

- |   |                         |                                     |
|---|-------------------------|-------------------------------------|
| ▪ Introduction to Solid Modeling and Design | ▪ Physics (I & II)      | ▪ Introduction to Probability       |
| ▪ Engineering Economics                     | ▪ Statics and Mechanics | ▪ Logic Development and Programming |
| ▪ Calculus (I,II, III)                      | ▪ Quality Systems       | ▪ Circuits I                        |
| ▪ Statistics                                | ▪ Ergonomics            | ▪ Project Management                |
|   | ▪ Optimization          |                                     |

## ACADEMIC ACHIEVEMENTS

**DEAN'S LIST WITH HIGH HONORS** | Named to the Fall 2023, Fall 2024, Spring 2025, and Fall 2025 list.

## LEADERSHIP | CO-CURRICULAR INVOLVEMENT | COMMUNITY SERVICE

**Executive Board Member** | INSTITUTE OF INDUSTRIAL AND SYSTEMS ENGINEERS | September 2023- Present

**Club Member** | SOCIETY OF WOMAN ENGINEERS (SWE) | September 2023- Present | 1 hour per week

**MSOE Women's Club Volleyball** | September 2025 - Present