

# Michel Domenella

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## ABOUT ME

Product Design Engineer with experience designing for medical devices in regulated and high precision environments. Skilled in CAD, prototyping, and test development, with a record of creating innovative solutions for complex problems. Adept at leading cross-functional teams, conducting user research, and translating insights into innovative, manufacturable solutions. Currently pursuing a Master's in Engineering Design Innovation at Northwestern University to expand expertise in human-centered design focused around physical product development.

## CERTIFICATIONS

**International Fluid Power Society**  
Pneumatic Specialist

June 2024

**Certified SolidWorks Associate**  
Mechanical Design

June 2021

## SKILLS

### Technical Skills

- 3D Printing
- Machining
- CNC Operation
- Laser Cutting
- Validation Testing
- Technical Drawing

### Software

- CAD
- CAM
- MatLab

### User Research

- In-Home Visits
- Central Site Visits
- Data Analysis and Synthesis

## EDUCATION

<b>MS</b>	<b>Northwestern University</b> , Engineering Design Innovation	Aug 2025 - Mar 2027
<b>BS</b>	<b>University of Notre Dame</b> , Mechanical Engineering	Aug 2019 - May 2023

## EXPERIENCE

<b>Clippard</b> , New Product Development Engineer	Jul 2023 - Jun 2025 Cincinnati, OH
<ul style="list-style-type: none"><li>• Spearheaded the design and validation of a RoHS 3-compliant oxygen mixing blender, producing a working beta unit in 3 months, for use in the ventilator of an open care baby warmer</li><li>• Developed and implemented a rigorous testing procedure that reduced beta unit failure rate to 0% for a valve in an at-home kidney hemodialysis machine</li><li>• Conducted internal usability testing, driving design changes that simplified installation and reduced contamination risk</li></ul>	
<b>Northwestern</b> , P&G Sponsored Design Project	Sept 2025 - Present Chicago, IL
<ul style="list-style-type: none"><li>• Conducted 5 consumer research sessions (in-home and central site) to uncover consumer pain points in packaging experience, synthesizing findings into actionable design requirements and prototypes</li><li>• Collaborated with and directed a multidisciplinary team of 5 other engineers, designers, and a cognitive scientist to develop and present actionable design solutions that informed P&amp;G's product development strategy</li></ul>	
<b>Yaskawa</b> , Product Engineering Intern	May 2022 - Aug 2022 Waukegan, IL
<ul style="list-style-type: none"><li>• Validated wafer handling robot performance by designing and running a rigorous long-term life cycle test to ensure sustained performance and durability over more than 15 million operational cycles</li><li>• Optimized data collection processes by building a MATLAB GUI, saving 2-4 hours weekly and reducing manual errors</li></ul>	
<b>Northwestern</b> , Design Coach	Sept 2025 - Present Chicago, IL
<ul style="list-style-type: none"><li>• Mentored students in weekly Solid Modeling classes by providing hands-on guidance</li><li>• Facilitated weekly office hours for 30+ undergraduate students to aid in the understanding of solid modeling best practices</li></ul>	