

# Michel Domenella

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[in Michel Domenella](https://www.linkedin.com/in/micheldomenella/)

## 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

**MS** **Northwestern University**, Engineering Design Innovation

Aug 2025 - Mar 2027

**BS** **University of Notre Dame**, Mechanical Engineering

Aug 2019 - May 2023

## EXPERIENCE

**Clippard**, New Product Development Engineer

Jul 2023 - Jun 2025  
Cincinnati, OH

- 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
- 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
- Conducted internal usability testing, driving design changes that simplified installation and reduced contamination risk

**Northwestern**, P&G Sponsored Design Project

Sept 2025 - Present  
Chicago, IL

- 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
- 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&G's product development strategy

**Yaskawa**, Product Engineering Intern

May 2022 - Aug 2022  
Waukegan, IL

- 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
- Optimized data collection processes by building a MATLAB GUI, saving 2–4 hours weekly and reducing manual errors

**Northwestern**, Design Coach

Sept 2025 - Present  
Chicago, IL

- Mentored students in weekly Solid Modeling classes by providing hands-on guidance
- Facilitated weekly office hours for 30+ undergraduate students to aid in the understanding of solid modeling best practices