

Michel Domenella

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ABOUT ME

Hi! I am a product development engineer who has both industry and academic experience with all stages of the product design process - from ideation and prototyping to manufacturing and post-launch support. My experience with medical devices at Clippard has pushed me towards designing products which improve people's lives. If you have an opportunity for me where I can accomplish that I would love to chat!

CERTIFICATIONS

International Fluid Power Society
Pneumatic Specialist

June 2024

Certified SolidWorks Associate
Mechanical Design

June 2021

SKILLS

Hands On Skills

- 3D Printing
- Subtractive Manufacturing
- Standard Lab Equipment

Software and Coding Languages

- SolidWorks
- Luminary (CFD)
- MatLab
- Latex
- VBM
- C/C++

Soft Skills

- Clear and concise communication
- Organized documenting
- Flexibility
- Dependability

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
<ul style="list-style-type: none">• Developed a RoHS 3 compliant oxygen mixing blender for use in the ventilator of an open care baby warmer.• Iterated and performed extensive testing on a long stroke pinch valve intended for an at home kidney hemodialysis machine.• Redesigned existing pinch valves to create a panel mount version to improve ease of use for customers and modernize the design.	
Yaskawa , Product Engineering Intern	May 2022 - Aug 2022 Waukegan, IL
<ul style="list-style-type: none">• Designed and ran a long-term life cycle test to ensure the wafer handling robot met the life cycle product requirements.• Wrote MatLab script to automatically collect all relevant parameters for the long-term life cycle test as well as a GUI to interface with the script.• Verified that the robot arms held the wafers to a certain levelness as defined by the product requirements by measuring and mapping the robot arms in 3D.	
Idea Center Innovation Lab , Fabricator	Aug 2021 - May 2023 Notre Dame, IN
<ul style="list-style-type: none">• Increased familiarity with rapid prototyping tools such as laser cutters and 3D printers.• Collaborated with local South Bend business owners to help support their new business ventures via product ideation and marketing	
Paws Chicago/Save the Animals Foundation , Volunteer	Nov 2024 - Present Chicago, IL
<ul style="list-style-type: none">• Socialize with dogs to prepare them for their new home• Maintain the building and facilities to ensure smooth volunteer shifts	