

Daniel Miltenberger

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I am a driven and high achieving mechanical engineering student looking for full time employment in medical device research and development. I am actively researching in the Gates Foundation funded AIM Lab to create a delivery device for shelf stable, lifesaving infant surfactant. I have interned in B.Braun's R&D dept, developing my project management skills and working with cross functional teams in a regulated industry. I am an energetic team player and self starter who is eager to learn!

Education

Virginia Commonwealth University (GPA 3.82)	Richmond, VA	Graduating May 2025
Major: Mechanical Engineering		(Current Senior)
Minor: Mathematics		
Tau Beta Pi Engineering Honors Society Member		

Skills and Coursework

Engineering	Mechatronics	Thermodynamics	Kinematics	Physics
Design & Analysis	Solidworks	Ansys	Fusion 360	Preform
Programming	Excel	Python	VBA	DAX

Engineering Experience

VCU Aerosols in Medicine (AIM) Laboratory - Research Assistant	Richmond, VA	Sep 2023 - Present
<ul style="list-style-type: none">■ Researching and developing dispersion device for shelf stable, life-saving infant surfactant■ Designing tooling fixtures and testing platforms to assist Gates Foundation funded research■ Refining current designs to improve aerosol effectiveness, expected research publication		
B. Braun Medical Inc - Product Development Intern	Allentown, PA	May 2024 - August 2024
<ul style="list-style-type: none">■ Developed 3D models and VBA programs to improve testing of medical devices in a regulated industry■ Communicated with customers, technicians, and subject matter experts on testing procedures■ Coordinated project timelines and deliverables such as tests and quotes		
Volvo Group - Mack Trucks - Industrial Engineering Intern	Macungie, PA	May 2023 - August 2023
<ul style="list-style-type: none">■ Designed, developed, and mass produced 3D printed tool fixtures for critical subassembly■ Automated multiple tasks using Python and Power BI, saving 700 hours and \$40k per year■ Co-lead cross functional kaizen team improving 5 assembly line stations' quality and ergonomics		
VCU Cabell Library - Makerspace Supervisor	Richmond, VA	August 2021 - Present
<ul style="list-style-type: none">■ Teaching students and faculty with weekly orientations on laser cutting and 3D printing (FDM, SLA)■ Troubleshooting complex technical components and software		

Leadership Experience

Varsity Rower, VCU Crew Club	Mentor, Emerging Leaders Program
Project Leader, Community Kitchen Initiative	Eagle Scout, Scouts BSA