

## Daniel Miltenberger

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Richmond, VA

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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

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<b>Virginia Commonwealth University (GPA 3.82)</b>	Richmond, VA	Graduating May 2025
Major: Mechanical Engineering		(Current Senior)
Minor: Mathematics		
Tau Beta Pi Engineering Honors Society Scholar, Public Relations Chair		

### Skills and Coursework

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<b>Engineering</b>	Mechatronics	Thermodynamics	Kinematics	Physics
<b>Design &amp; Analysis</b>	SolidWorks	AutoCAD	Fusion 360	Finite Element Analysis
<b>Programming</b>	Excel	Python	VBA	Git / Version Control
<b>Communication</b>	Technical Writing	Ethics	Profiles in Leadership	

### Engineering Experience

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

### Leadership Experience

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