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	Physics	Thermodynamics	Kinematics	Mechatronics
Design & Analysis	Solidworks	Ansys	Fusion 360	Preform
Programming	Excel	Python	VBA	DAX
Communication	Technical Writing	Ethics	Profiles in Leadership	

Engineering Experience

VCU Aerosols in Medicine (AIM) Laboratory - Research Assistant Richmond, VA Sep 2023 - Present

- 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

- 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

- 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

- 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
Project Leader, Community Kitchen Initiative
Mentor, Emerging Leaders Program
Eagle Scout, Scouts BSA