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
Mechanical Engineering, Bachelor of Science (Current Senior)
Mathematics, Minor
Tau Beta Pi Engineering Honors Society Scholar, Public Relations Chair

Skills and Coursework

Engineering	Mechatronics	Thermodynamics	Kinematics	Physics
Design & Analysis	SolidWorks	AutoCAD	Fusion 360	Finite Element Analysis
Programming	Excel	Python	VBA	Git / Version Control

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
- Utilizing FormLabs resin printers, Solidworks, Python, Excel to test and validate designs
- Refining current designs to improve aerosol effectiveness, expected research publication

B. Braun Medical Inc - R&D 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
- Wrote and executed testing procedures in laboratory to ensure parts passed FDA, MDA regulations
- Communicated with clients, technicians, and subject matter experts about technical requirements
- Coordinated project timelines and deliverables such as tests and quotes across 10+ projects

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