Daniel Miltenberger

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Objective

I am a driven and high achieving mechanical engineering student looking to get started in medical device research and development. I have experience with 3D modeling, rapid prototyping, cross-functional teams, and programming. I am a high energy team player and self starter who is eager to learn!

Education

Virginia Commonwealth University, Richmond, Virginia — Graduating May 2025
Mechanical Engineering Major, **GPA 3.9** — (Current Junior)

Skills and Coursework

Engineering	Kinematics	Deformables	Physics	Thermodynamics
3D Modeling	Solidworks	Inventor	Fusion 360	Onshape
Programming	Python	Excel	Matlab	Power Apps (Bi, Automate)
Communicating	Writing	Research	Presenting	Public Speaking

Engineering Experience

VCU Aerosols in Medicine Laboratory - Research Assistant, Richmond, VA September 2023 - Present

- Researching and developing ideal resin printing operating procedures in active laboratory
- Designing tooling fixtures and testing platforms to increase performance
- Refining current designs to improve aerosol effectiveness, expected research publication

Volvo Group - Mack Trucks - Industrial Engineering Intern, Macungie, PA May 2023 - August 2023

- Programmed an algorithm which found unused warehouse space, potentially saving $648k per year
- Improved workflow of the logistics and production departments with a personal benefit to cost of 55:1
- Designed, developed, analyzed, and mass produced 3D printed tool fixtures for critical subassembly
- Automated multiple tasks using python and power automate, saving 700 hours and $40k per year
- Co-lead cross functional kaizen team improving 5 assembly line stations' quality and ergonomics
- Developed strong technical writing, presentation, and communication skills in a professional setting
- Implemented principles of continuous improvement on a fast paced and active assembly line

VCU Cabell Library - Makerspace Supervisor**,** Richmond, VA August 2021 - May 2023

- Taught 200+ students and faculty laser cutting and 3D printing in weekly orientations
- Showcased in-depth troubleshooting with 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