

Timothy Shaheen

US Citizen | Timothy.S.Shaheen@Vanderbilt.Edu | 301-332-2677 | [LinkedIn](#)

EDUCATION

Vanderbilt University, Nashville, TN

May 2025

Bachelor of Engineering, Mechanical Engineering

Minor: Computer Science

Coursework: Mechanical Engineering Design, Circuits, Mechanical Instrumentation, Thermodynamics, Dynamic Physics, Differential Equations, Applied Probability and Statistics, Data Structures, Fluid Dynamics, Material Science

Future Coursework: Heat Transfer, Energetics, Discrete Structures, Finance, Accounting

PROFESSIONAL EXPERIENCE

Pratt & Whitney, Middletown, CT

June 2024 – August 2024

Engineering Intern

- Led Gage R&R Studies on precise compression-stage parts for commercial and military engines
- Adapted quality inspection documents and processes within FAA guidelines for digital systems
- Aided in root cause corrective action studies and engineering changes on non-conforming and defective processes

Maritime Applied Physics Corporation, Baltimore, MD

May 2023 – August 2023

Mechanical Engineering Design Intern

- Developed and led comprehensive manufacturing assistive documentation for the company's innovative naval craft
- Analyzed and optimized existing designs and documentation process for expedited production for demanding, mission-focused US government customers
- Acquired hands-on experience in design for manufacturing under direction from senior engineers
- Offered a follow-on internship position at a level of increased responsibility and engineering detail

Vanderbilt Civil Engineering Department, Nashville, TN

September 2023 – December 2023

Undergraduate Teaching Assistant

- Supervised undergraduate students in Static Physics Laboratory. Ensure safety measures are followed surrounding MIG welders, and other metal shop appliances
- Gained hands-on experience in MIG welding steel and fabrication principles

Cedarbrook Pool, Kensington, MD

Summers May 2018 – August 2022

Manager

- Led full operational oversight of community facility; supervised all lifeguard and operational staff, including scheduling, training, performance, and compliance; maintained and operated full physical plant systems to exceed government and industry standards

LEADERSHIP EXPERIENCE

Vanderbilt Aerospace Design Lab (VADL), Nashville, TN

June 2023 – Present

Mechanical Engineer

- Design rocket and payload for NASA's Student Launch Initiative contest which fields teams from elite universities to create cutting edge prototypes to solve relevant industry challenges
- Collaborate with a multidisciplinary engineering team to integrate systems and subsystems, run simulations, perform flight tests, manufacture aerospace components, create reports based on federal contract formats, and more

Vanderbilt Ethics in Engineering Team, Nashville, TN

November 2022 – Present

Presenting Member

- Selected as one of two students to represent Vanderbilt's Engineering school at the Lockheed Martin Undergraduate Ethics in Engineering Case Competition and mentor new team on strategy for success in upcoming competition
- Created and presented effective and ethical solutions to a realistic dilemma concerning the implementation of Mechanical Engineering technologies

SKILLS AND INTERESTS

Technical Skills: C++, Java, Python, MATLAB, LabView, SolidWorks, Microsoft Office (Excel, PowerPoint, etc.)

Memberships and Athletics: Alpha Tau Omega, ASME, Vanderbilt Men's Club Lacrosse, Marathon Training

Gonzaga College High School: 4.34/4.00 GPA, 1530 SAT (770 Math, 760 Verbal), Student Government, Model UN President, Varsity Lacrosse