

STEELE L. Z. FRITCHIE

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Electrical engineering student with a strong background in file and project management using Microsoft programs, Notion, and 3D modeling using programs such as Autodesk Inventor, SolidWorks, and Onshape, designing wired circuits using the Multisim program, and using engineering principles who is eager to contribute engineering and critical thinking skills to an organization that serves our country.

EDUCATION

B.S. Electrical Engineering

Liberty University, Lynchburg, VA

Anticipated Graduation May 2028

GPA Thus Far: 2.98

ENGINEERING EXPERIENCE

Liberty Rocketry Airbrakes Lead Engineer

June 2026 – Present

Oversee the development and manufacturing of the team's Airbrakes system to be used on the 2027 competition rocket.

Liberty Rocketry Avionics Lead Engineer

August 2025 – June 2026

Oversee and delegate responsibility and projects to design, develop, and manufacture Omega's avionics systems.

Liberty Rocketry Avionics Design Engineer

September 2024 – June 2025

Liberty University, Lynchburg, VA

Participated in International Rocket Engineering Competition (IREC) June 2025

Project Lead The Way (PLTW) Engineering Program

February 2023 – April 2024

Carroll County Career and Technology Center, Westminster, MD

ENGINEERING PROJECTS

Avionics Bay Optimization

(LU) September 2024 – June 2025

- Used iterative design processes to 3D model and print an optimized avionics bay. Using technical skills to create, wire, and test several versions, the optimized avionics bay was used in the team's 10k COTS 2025 competition rocket, Trinity, and received several on the spot commendations from IREC judges for its design.

Mouse Trap Car

(LU) September 2024 – December 2024

BRS Trucking Solutions (PLTW Capstone Project)

(PLTW) February 2024 – May 2024

- Invented a solution which helps minimize accidents involving large trucks. Conducted research on prior solutions and patents, defined design requirements and specifications, and contacted local experts to gain insight. Concepts developed and modeled in Inventor 3D modeling software. The prototype was able to pass all identified testing criteria. Market share and target market of the product as well as future development and research were analyzed.

Date In History

(PLTW) April 2024

- Used knowledge of circuit principles to create a truth table, Karnaugh maps, and the Multisim simulation program to design a circuit which used a three-input system and wire a physical breadboard with the designed circuit.

Majority Vote Voting Machine

(PLTW) March 2024

Automated Guided Vehicle (AVG)

(PLTW) February 2024

- Designed, built, and programmed an AGV which can follow, without human input, a variable path of colored tape on the ground (a left color, a middle color, and a right color) which consists of turns up to ninety degrees and stops at several points indicated by blue tape before advancing on the path.

Reverse Engineering Project

(PLTW) January 2024 – February 2024

- Conducted research on existing products and patents to develop design specifications and concept sketches for a phone stand. After selecting a final design, property and stress analysis were performed on a 3D model of the phone stand. When the model was printed, evaluation and reflections were done on the process and final product.

Compound Machines

(PLTW) April 2023

Automata

(PLTW) April 2023

3D Modeling Project

(PLTW) March 2023

Simple Machines

(PLTW) February 2023

PROFESSIONAL EXPERIENCE

Chick-Fil-A Team Member

December 2021 – Present

- Displayed the Core Four Principles of Chick-Fil-A to serve my community.
- Used expert knowledge in front of house operations to assist in training employees.

Fellowship of Christian Athletes Club Leader

August 2023 – December 2023

- Led high school athletes through team building exercises.
- Helped club members in their walk with Christ.