

COLTON FLEITZ

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EDUCATION

- Bachelor of Science in Mechanical Engineering Aug 2022 - Present
University of Tennessee Knoxville, TN
- Cumulative GPA: 3.48/4.00, Graduation: December 2026
- UT in Florence Study Abroad May 2025 - June 2025
University of Tennessee Florence, Italy
- Gained global engineering perspective by studying the evolution of engineering practices and applying human factors principles through site visits to local businesses and manufacturing facilities abroad
 - Spent the following six weeks travelling solo across Portugal, Spain, France, Switzerland, Germany, Czech Republic, Slovakia, and Hungary strengthening logistical planning, adaptability, and global perspective

EXPERIENCE

- Mentor June 2024 - Present
Tickle College of Engineering Knoxville, TN
- Mentor a first-year student by organizing regular meetings and providing guidance for academic and campus integration
- Mechanical Engineering Intern June 2024 - Aug 2024
Lockheed Martin Advanced Development Programs (Skunkworks) Fort Worth, TX
- Worked on critical hypersonic detection and data transfer projects for government clients while maintaining **secret-level security clearance** in compliance with strict federal security protocols
 - Traveled frequently to support key government tests of advanced hypersonic detection methodologies and data transfer practices, networking and building meaningful connections with co-workers and clients along the way
- Website Manager Nov 2023 - Present
Sigma Alpha Epsilon Fraternity
- Update website content weekly to ensure accurate representation of fraternity events, achievements, and member information
 - Uphold sanctioned health and safety standards through regular maintenance of the house library

PROJECTS

- Capstone Project- 3D Printed Tooling for Forming and Shearing Steel Parts Sept 2025 - Present
- Researched feasibility of 3D-printed tooling for forming/shearing steel; modeled designs in SolidWorks and planned prototype testing for a company local to the Eastern Tennessee region
- Hypersonic Weapons Detection Test Support June 2024 - Aug 2024
- Procured all equipment to design custom travel cases according to operational and budget constraints as well as an operational manual to successfully support a government contract test valued at \$20M
 - Traveled internationally with software/hardware and successfully executed a government-funded test with very low frequency (VLF) antennas, including loop and ferrite antennas to record hypersonic data
 - Secured the test area to avoid commercial airspace while adhering to international security protocols
 - Communicated effectively with government test teams to meet necessary contract deadlines
- Joint All-Domain Operations (JADO) Support July 2024 - Aug 2024
- Supported project to develop new data sharing capabilities using Multifunction Advanced Data Link (MADL) technologies between the F-35 and Joint All-Domain Command and Control (JADC2) centers through event support including the set up of power, software, hardware, and communications for a Data All Domain Ground Gateway Rig (DAGGR)
 - Oversaw logistics for multiple government test events including security detail, safety measures, and transportation of the DAGGR to and from Edwards Air Force Base and Marine Corps Air Station Yuma

SKILLS

- SolidWorks
- Artificial Intelligence Prompt Chaining
- MATLAB
- Technical Writing