

Ethan Ashley

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Summary

Recent Mechanical Engineering graduate passionate about design and analysis. Experienced with SolidWorks, metal additive manufacturing, and prototype development. Dedicated to applying technical expertise and teamwork skills to drive impactful engineering solutions.

Education

Auburn University — Auburn, AL

Bachelor of Science in Mechanical Engineering, May 2025

GPA: 3.18

Technical Skills

- **CAD Design:** SolidWorks (Advanced), Inventor, Mastercam (CAM)
 - **Simulation & Analysis:** Adams View (Dynamic Systems), MATLAB (Modeling and Analysis)
 - **Manufacturing Tools:** 3D Printing, Milling Machines, Lathes
 - **Electrical/Mechatronics:** Circuit design fundamentals, microcontroller integration
 - **Other:** Microsoft Office Suite (Excel, Word, PowerPoint), Technical Documentation
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Engineering Experience

Additive Manufacturing - Senior Design Project

Auburn University | Aug 2024 – May 2025

- Collaborated with Auburn's National Center for Additive Manufacturing Excellence (NCAME) and the US Army's Aviation and Missile Center.
- Researched additive manufacturing as an industry and material capabilities
- Designed and modeled metal additive benchmark artifact using SolidWorks and MasterCAM for FormAlloy's L5 LP-DED Printer

Rocketry Association & Small Satellite Program

Auburn University | Aug 2021 – May 2023

- Designed, built, and tested payload components for NASA-sponsored competitions.
 - Conducted mechanical systems integration, CAD modeling, and iterative prototype testing.
 - Participated in Small Satellite Program training for constructing government-funded scientific satellites.
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Leadership & Activities

- Eagle Scout
 - Auburn University Marching Band and Basketball Pep Band (4 years)
 - A significant commitment of my time at Auburn and an excellent development for soft skills applicable to engineering roles
 - Kappa Kappa Psi National Honorary Band Fraternity (4 years)
 - American Society of Mechanical Engineers Member
 - International Learning Participant
 - Honors College Study and Travel Course to London/Paris and Italy
 - Volunteer work with Auburn's Honors Congress
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Certifications

- ITAR Certification (Completed 2024)
 - Cybersecurity Awareness Training (Completed 2024)
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