

ANDREW DAVID PETERS

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Mechanical Engineering student at The University of Alabama with strong academic performance, Dean's List recognition, developing technical skills, and real-world work experience in fast-paced retail, logistics, customer service, and team-based environments. Experienced with SOLIDWORKS part modeling and simulations, MATLAB, Excel formulas and charts, engineering calculations, Adobe Photoshop, and Adobe Premiere Pro. Recognized for reliability, teachability, attention to detail, and willingness to learn. Seeking hands-on engineering experience in mechanical engineering, manufacturing, quality, testing, validation, project engineering, CAD, aerospace, automotive, defense, or related technical environments.

EDUCATION

The University of Alabama, Tuscaloosa, AL

Bachelor of Science in Mechanical Engineering

Expected Graduation: May 2027

Overall GPA: 3.53

Honors & Recognition

- Dean's List: Fall 2023, Spring 2024, Spring 2025, Spring 2026
- Recipient, Reasoner Family Engineering Scholarship Fund
- Alpha Lambda Delta Freshman Honor Society

Relevant Coursework

- Statics
- Dynamics
- Thermodynamics
- Fluid Mechanics
- Mechanics of Materials
- Heat Transfer
- Static Machine Components Lab
- Small-Scale Engineering Graphics / CAD
- Engineering Analysis / MATLAB

TECHNICAL SKILLS

Engineering & Design: SOLIDWORKS part modeling, SOLIDWORKS simulations, CAD-based design, engineering drawings, dimensional modeling, mass properties, material selection, mechanical design analysis, design iteration

Software & Data: MATLAB, Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Google Workspace

Excel Skills: Formulas, charts, data organization, engineering calculations

Creative & Communication Tools: Adobe Photoshop, Adobe Premiere Pro, presentation development, basic video editing, graphic design awareness

Professional Skills: Team collaboration, technical documentation, accuracy under pressure, problem-solving, communication, constructive feedback, process awareness, customer service, time management

ENGINEERING PROJECTS

Bike Frame Design Project

The University of Alabama — Static Machine Components Lab, Spring 2026

- Designed, modeled, and analyzed a bike frame using SOLIDWORKS 2026 as part of a three-person engineering project team.
- Worked within defined project requirements to develop a bike frame capable of supporting a minimum 200-pound load while meeting design-size constraints.
- Created and tested an original frame design from scratch using SOLIDWORKS modeling and simulation tools.
- Modified a teammate's design to support the final project submission and improve project completion.

- Used SOLIDWORKS simulation tools to evaluate yield strength and von Mises stress.
- Applied dimensions, material properties, mass properties, and simulation results during the design and analysis process.
- Helped organize and unify the final project report so the group's design philosophy, calculations, and results were presented clearly and consistently.
- Earned an 88 on the final project submission.

WORK EXPERIENCE

Target, Decatur, AL

Overnight Inbound Expert, May 2025 – July 2025

- Worked approximately 28–35 hours per week in a fast-paced overnight retail logistics role supporting inbound inventory, backroom operations, sales floor readiness, and fulfillment needs.
- Collaborated with a six-person overnight inbound team to unload, sort, and process merchandise from trucks containing more than 2,000 individual products.
- Used inventory devices, walkies, pallet jacks, carts, and fulfillment technology to support daily store operations.
- Assisted with backstocking, zoning, pulling priorities, restocking low-inventory areas, and preparing the store for opening.
- Completed online order fulfillment tasks under strict time requirements while maintaining accuracy with product counts, sizes, and item details.
- Helped train or support newer employees when needed.
- Demonstrated reliability, physical stamina, teamwork, and time management in an early-morning work environment.
- Ended role to return to school.

Kaleidoscopes, Decatur, AL

Ice Cream Retail Associate, June 2021 – July 2022

- Provided customer service in a local ice cream retail environment by greeting guests, taking orders, preparing items, and supporting the overall guest experience.
- Operated the cash register, POS system, credit card terminal, and cash drawer.
- Prepared cones, sundaes, milkshakes, specialty items, and customer orders during regular and high-volume shifts.
- Worked during busy summer seasons, weekends, evenings, and periods with large customer groups.
- Maintained cleanliness and organization of store appliances, service areas, dining spaces, and customer-facing areas.
- Assisted with receiving, organizing, and restocking supply deliveries on a recurring basis.
- Helped train newer employees and explain procedures clearly.
- Built early experience in customer service, reliability, teamwork, food service operations, cleaning standards, and small-business support.

CAMPUS INVOLVEMENT

Mu Theta Tau, The University of Alabama Chapter of Theta Tau

Member, November 2024 – Present

- Participates in Theta Tau, a professional engineering fraternity focused on professional development, community service, and brotherhood.
- Attends engineering-related events, company information sessions, networking opportunities, and professional development activities.
- Joined the organization to better understand mechanical engineering and other engineering sectors through exposure to companies, peers, and professional pathways.
- Involved with the large events committee, pending continuation in future semesters.

American Society of Mechanical Engineers, The University of Alabama Student Chapter

Member, November 2024 – Present

- Participates in the UA student chapter of ASME to build professional awareness and connect with mechanical engineering peers.
- Attends selected meetings, guest speaker events, and professional development opportunities when scheduling allows.
- Uses ASME involvement to explore mechanical engineering career pathways and strengthen connection to the engineering community.

Alpha Lambda Delta Freshman Honor Society

Member, March 2024 – Present

- Selected for freshman honor society membership based on academic achievement during the first year of college.
- Qualified through strong freshman-year academic performance.

COMMUNITY SERVICE

University of Alabama STEM Outreach / Science Olympiad Event

Volunteer — Station Support, March 2025

- Supported a University of Alabama STEM outreach event through participation facilitated by Theta Tau.
- Helped instruct, time, and record results for a car racing station serving students from late elementary through early high school.
- Ran a station and supervised activities designed to introduce younger students to STEM concepts, problem-solving, and technical competition.
- Contributed approximately 2–3 hours of service.

Vance Elementary School Refurbishment

Volunteer — UA Honors Action, August 2023

- Participated in a University of Alabama Honors Action service project before freshman year.
- Worked with a team of approximately nine students to clean and paint the walls of the Vance Elementary School gymnasium.
- Contributed to a five-day service project focused on improving school facilities and preparing the campus for students and staff.
- Supported a measurable improvement to the school environment through hands-on facility refurbishment.

Decatur Scholars Bowl Yearly Tournament

Scorekeeper / Volunteer

Decatur High School, Decatur, AL, November 2019 – Present

- Serves as a recurring volunteer scorekeeper for Decatur Scholars Bowl tournaments.
- Supports academic competition operations by tracking points, maintaining match flow, assisting moderators, and helping ensure fair competition.
- Helps set up and dismantle rooms, run papers, and support tournament logistics.
- Volunteers once per year for approximately 5–8 hours per tournament.
- Has supported at least five tournaments and continued volunteering while in college.

ADDITIONAL LEADERSHIP & RESPONSIBILITY

- Cross Country Team Captain, Decatur High School
- Trained or supported newer employees at Kaleidoscopes
- Helped train or support newer employees at Target
- Organized and unified a team engineering project report for Static Machine Components Lab
- Preparing to serve as a UA tutor, supporting students academically through mentoring and subject-matter guidance