




RILEY OVALLE

CONTACT

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-  New Orleans, Louisiana

EDUCATION

Louisiana Tech University

Bachelor of Science
in Mechanical Engineering

May 2027

Dean's List

STEM Success Scholars Program

GPA: 3.795

SKILLS

Leadership

SolidWorks/CAD

Critical Thinking

Mathcad

Structural Analysis

Communication

Public Speaking

Microsoft Office

Teamwork

SKILLS SUMMARY

Motivated mechanical engineering student at Louisiana Tech University with hands-on experience fabricating parts, soldering, 3D modeling, and programming, working toward a Bachelor of Science in Mechanical Engineering. Proficient in SolidWorks, Mathcad software, basic python, and simulation tools. Demonstrated ability to work collaboratively in team environments and effectively communicate technical concepts. Seeking to improve skills and knowledge in an internship or entry-level position to contribute to innovative engineering projects.

PROJECT EXPERIENCE

Automatic Laundry Folder

May 2024

Freshman Design Exposition

- Implemented sensor systems to detect clothing on the folding platform for automation.
- Designed and 3D-printed custom hinges to integrate with standard servos, enabling precise folding actions.
- Controlled the system using an Arduino UNO, automating the detection and folding processes.

Canister Oven

January 2024

Engineering Problem Solving II

- Modified cylindrical canister to attach a thermistor and heating element to the canister.
- Utilized Arduino UNO to maintain a specified temperature by using a heating element and fan, along with transistors.
- Programmed an RGB LED to fade from red to blue depending on the current temperature of the canister.

JOB EXPERIENCE

Westside Bowling Lanes

September 2022 - August 2023

Front Desk

- Operated front desk registers to assign guest lane positions.
- Authorized cash and credit transactions using a point-of-sales system.
- Communicated with several departments, such as mechanics, to fix issues with lanes.

Chick-Fil-A

October 2020 - April 2022

Front of House Team Member

- Managed inventory by stocking shelves and organizing supplies.
- Operated a point-of-sales system to take guest orders in a fast-paced work environment.
- Maintained excellent customer service standards while fulfilling guests' orders.

INVOLVEMENT

Eco-Car, Louisiana Tech University

September 2025

- Designed and modeled critical components in SolidWorks, optimizing for weight reduction and manufacturability.
- Fabricated high-tolerance parts using laser cutter, mill, and 3D printing techniques.
- Collaborated with a team to assemble and test the vehicle, analyzing performance data to implement iterative design improvements before competing in the Shell Eco-Marathon.

Eagle Scout, Boy Scouts of America

May 2016 - January 2023

- Planned and led weekly meetings, camping trips, and events, and ensured the safety of all scouts as a senior patrol leader.
- Participated in and staffed National Youth Leadership Training while learning how to improve leadership skills.