

Truman Breithaupt

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EDUCATION

- Pursuing: *Bachelor of Science, Mechanical Engineering* Graduation: May 2028
- Louisiana State University – Baton Rouge, Louisiana
- Named to the Dean's list for Fall 2023 and Spring 2024; Named to SEC First Year Academic Honor Roll

ENGINEERING PROJECTS

Self-Hosted Linux Server & Network Infrastructure Project

- Built and configured a Linux-based home server to manage media services and network infrastructure
- Deployed Docker containers including Jellyfin, Sonarr, Radarr, and qBittorrent for automated media management
- Implemented secure remote access using Tailscale VPN
- Installed Pi-hole DNS filtering for network-wide ad blocking

Mechanical Energy Harvester Project

Spring 2024

- Worked with my team to help develop and create an energy harvesting doormat that takes advantage of the piezoelectric effect to store unused mechanical energy to measure foot traffic
- Designed parts for the project using Fusion 360
- Constructed a functional decomposition chart to illustrate hierarchical relationships between components

Leaf Blower Functional Decomposition

Fall 2023

- Collaborated with teammates on an engineering project involving the functional decomposition of an electric leaf blower.
- Analyzed the leaf blower's key components and their functions to better understand its operation.
- Used Fusion 360 to model the leaf blower, capturing both mechanical and design elements.

Ochsner Fitness Center; New Orleans, LA

May 2021 - July 2022

- Lifeguard — Monitored pool safety and responded to emergencies

EXTRACURRICULAR ACTIVITIES

LSU Men's Swim Team

August 2023 – December 2025

- Member and swimmer on the LSU Men's Swim and Dive Team, practicing 20+ hours per week.
- Competed in the SEC Championships as a freshman and sophomore.
- LSU ranked top 15 in the nation while a member

SKILLS AND QUALIFICATIONS

- Proficient in Autodesk Fusion 360, Soldering, MATLAB, Office 365 Products, and Adobe Photoshop

SERVICE

- JoJo's Hope Swim Instructor — Taught swimming skills to individuals with disabilities
- Poydras Home Caregiver — Assisted elderly residents with daily support and companionship