

Aidan Lovelace

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EDUCATION

Lipscomb University, Nashville, TN Anticipated Graduation: **May 2025**
B.S. in Mechanical Engineering, minors in Biology & Applied Mathematics GPA: 3.3

Honors: Lipscomb Presidential Scholarship w/ Distinction

Relevant Skills:

3D CAD Modeling Programming Basic Machining Hobby Electronics

ENGINEERING INVOLVEMENT

U.S. Army Corps of Engineers, Mechanical Engineer in Training *May 2024—Present*

- Led technical development of 60% and 90% plans and contract specification packages for the air cooler replacement project for a hydroelectric generator, ensuring all deliverables passed rigorous technical reviews. This involved thorough research of historical documentation, contributing to precise technical specifications.
- Directed the creation of detailed plans and contract specifications for the raw water piping system replacement at a navigation lock, incorporating code compliance and hydraulic calculations.

Valeo, Process Engineering Intern *November 2023—June 2024*

- Designed and oversaw implementation of a mechanical improvement to a manufacturing cell that is expected to result in 7% less breakdown time month-over-month.
- Established a work order ticketing system to simplify issue reporting and enable maintenance KPI tracking for cost and time-to-repair.
- Optimized production and losses data collection by writing a set of spreadsheet macros to centralize data for quick and efficient analysis by management.
- Produced documentation in the form of work instructions for several new assembly lines.

Lipscomb University, Machine Shop Assistant & Student Tutor *September 2023—May 2024*

- Support research and development projects by assisting with equipment maintenance and ensuring a safe working environment.
- Guide and support younger engineering students in their coursework.

American Society of Mechanical Engineers, Student Member *August 2022—Present*

- Network with experienced engineers to expand industry knowledge.
- Foster connections with fellow students and pursue professional growth opportunities through social events.

Electric Self-Propelled Longboard, Personal Project *June 2021—April 2024*

- Devised and machined several custom parts including adjustable belt-tensioning motor mounts and drive belt pulleys to achieve desired drive ratio and required strength.
- Selected and assembled multi-cell (12s4p) battery with 18650 cells and a BMS.

Lipscomb Engineering Study Abroad, Stuttgart, Germany *May 2023*

Hitch-Mounted Tricycle Carrier, Class Project *Fall 2022*

WORK HISTORY

Apple Retail, Seasonal Specialist *September 2022—January 2023*

Delivered customer-centric service in a fast-paced environment in order to build and maintain long-term relationships between a customer and the brand by devising and presenting a personalized sales solution.

Landscape Maintenance, Self Employed *June 2022—August 2022*

Located leads, sent invoices, collected payment, maintained customer relationships, and provided the core service of cutting customers' grass and tending to garden beds.