

Aidan Lovelace

(901) 828-6328 ◊ me@aidanlovelace.com

EDUCATION

Lipscomb University, Nashville, TN Anticipated Graduation: **May 2025**
B.S. in Mechanical Engineering, minors in Biology & Applied Mathematics Major GPA: 3.5

Honors: Lipscomb Presidential Scholarship w/ Distinction

Relevant Skills / Proficient Tools:

| | | | |
|------------|--------|-----------------|--------------------|
| Solidworks | MATLAB | Basic Machining | Hobby Electronics |
| Fusion 360 | Python | 3D Printing | Google Apps Script |

ENGINEERING INVOLVEMENT

Valeo, Process Engineering Intern *November 2023—Present*

- Designed and currently overseeing 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—Present*

- 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.

Baja SAE Competition *August 2023—Present*

- Model and analyze drivetrain in order to select appropriate components.
- Support the design lead in producing CAD models of components.
- Document designs and computations according to competition requirements.

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—Present*

- 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*

- Studied project management in the context of sustainability.
- Attended lectures from various German universities, non-profits, and engineering firms.

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

- Led a team to design a carrier to transport a tricycle on the rear of a passenger vehicle using an existing 2" trailer hitch receiver.

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.