AMELIA LOBO

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EDUCATION

Carnegie Mellon University Pittsburgh, PA
B.S. in Electrical and Computer Engineering *May 2025*
- GPA: 3.77/4.00
- Dean's List: Fall 2021, Spring 2022

EXPERIENCE

Volvo Greensboro, NC
Incoming Driver Interaction & Connectivity Intern *May 2023 - August 2023*

Carnegie Mellon, Electrical & Computer Engineering Department Pittsburgh, PA
Teaching Assistant *January 2022 - May 2022*
- Taught and reinforced course material for Intro to Electrical and Computer Engineering comprised of 150+ undergraduate students
- Held weekly office hours, aided in grading homework and labs, drafting and proctoring exams

NC State, Computer Science Department Raleigh, NC
Research and Development Intern *June 2019 - August 2020*
- Developed Snap!-based educational software programs and lesson plans for 170+ North and South Carolina K-12 teachers

PROJECTS

Spotify Insights *May 2023 - August 2023*
- Developed application to scrape Spotify user's listening habits, create graph-based recommendations playlist, add to user's Spotify account
- Implemented user-comparison feature and generated blended playlist
- Utilized: Python, Spotify Web API, Tkinter, Matplotlib

Swerve Drive Module *January 2021 - May 2021*
- Designed, fabricated, and assembled functional swerve drive module (drive system that allows each wheel to rotate while also pivoting on its vertical axis)
- Utilized: SolidWorks, CNC, Bandsaw, Metal Lathe

TECHNICAL SKILLS

- **Languages:** C, Python, SystemVerilog, MATLAB, HTML/CSS, R
- **Tools:** Valgrind, gcc static analysis, Makefile, REST APIs (Spotify Web API), Tkinter, Matplotlib
- **Software:** SolidWorks, LaTeX

COURSEWORK

- **Computer Science:** Computer Systems, Principles of Imperative Computation, Fundamentals of Programming and Computer Science
- **Engineering:** Structure & Design of Digital Systems, Signals & Systems
- **Mathematics:** Discrete Math, Probability Theory & Random Processes, Linear Algebra, Multivariable Calculus

HONORS & AWARDS

FIRST Robotics Competition Dean's List Finalist *2020*
NCWIT Award for Aspirations in Computing, Regional Award Winner *2020*