

Alex Anderson-McLeod

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EDUCATION

University of South Carolina Honors College - Columbia, SC

May 2025

BS – Computer Engineering

GPA: 3.977

Major GPA: 4.0

HONORS

- Palmetto Fellows Scholarship
- USC President's List
- USC Presidential Scholar
- USC South Carolina Honors College

SKILLS

- C++ (advanced), Python (advanced), Motorola 68000 assembly language (advanced), Java (proficient), MIPS/RISC-V assembly language (proficient), x86 assembly language (proficient), MATLAB (proficient), and HTML/CSS (proficient), using IDEs including Visual Studio Code, Atom, and Eclipse.
- Classroom experience with SPICE software, namely Cadence PSpice (proficient) and LTSpice (proficient).
- Extensive experience with PCB design software, namely EasyEDA (advanced) and Autodesk Eagle (basic).
- Extensive oscilloscope and logic analyzer skills.
- Microsoft Word, Excel, and PowerPoint (proficient).

EXPERIENCE

USC College of Engineering and Computing

Columbia, SC

Undergraduate Researcher for Dr. Jason Bakos

May 2024 – Present

Development of Coursework for Computer Engineering Classes

- Developing new hands-on projects for Dr. Bakos' CSCE 491 (Capstone Computer Engineering) class to modernize the class and make it more engaging.

Undergraduate Research Assistant for Dr. Bin Zhang

October 2022 – August 2023

Battery State of Charge Estimation

- Aided in the development of algorithms to better estimate the state of charge of lithium-ion batteries. The improvement of these algorithms is crucial to improving the accuracy of battery percentage indicators on phones, computers, and any other device that uses a lithium battery.
- Aided in the writing and editing of an academic paper summarizing the findings of this research.

Autonomous Boat Design

- Aided in the assembly of a computer vision-enabled autonomous kayak for the US Navy.
- Interfaced high-resolution cameras with the Linux-based single-board computer that controls the kayak.

Silicon Solutions Computer Center

Columbia, SC

Computer Repair Technician

Summers of 2016 – 2021

- Interacted with customers to ensure that they are kept informed about the repair process.
- Participated in numerous computer repair/maintenance tasks, from virus removal to motherboard repair.
- Collaborated with other technicians on larger repairs and the fulfillment of custom computer orders.