Aidan Curtis

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EDUCATION

Thayer School of Engineering at Dartmouth College, Hanover, NH | *Bachelor of Engineering* Expected June 2026
- Electrical Engineering Major | GPA: **3.89/4.00**

Amherst College, Amherst, MA | *Bachelor of Arts* August 2021 - May 2025
- Mathematics Major | Major GPA: **4.00/4.00** | GPA: **3.78/4.00**

EXPERIENCE

Summer Research Assistant, New York University, New York, NY May 2024 - August 2024
- Worked in Professor Davood Shahrjerdi's lab designing a transimpedance amplifier for a neurotransmitter biosensor chip in
- Simulated and iterated the circuit using Cadence OrCAD

Research Assistant, Dartmouth College, Hanover, NH January 2024 - August 2024
- Working in Professor Kofi Odame's Lab, designing an ECG monitoring device with finger electrodes
- Designing a PCB from scratch using CAD software and reading component datasheets

Mathematics Teaching Assistant, Amherst College, Amherst, MA January 2023 - May 2025
- Lead TA for 50+ students in Group/Field Theory and Linear Algebra classes
- Guided students through weekly math homework, enhancing their understanding and academic progress
- Selected by the Math Department as a TA for exceptional performance, showcasing commitment to peer support in learning

Computer Science Peer Tutor, Amherst College, Amherst, MA January 2023 - May 2025
- Prepared personalized study materials and exercises weekly to enhance students' programming understanding
- Tutored students in fundamental programming principles, creating individualized study problems to address their needs

PROJECTS

PneumaGlove | *Class Project* | Philip R. Jackson Prize Award Winner June 2023 - Present
- Designed therapeutic gloves for neurological and musculoskeletal disorders, edema, and overuse injuries to alleviate hand pain
- Developed a circuit board with a microcontroller, MOSFETs, and a voltage regulator for embedded electronics in the glove
- Programmed embedded software in C++ and created an iPhone app in Swift for Bluetooth control of the glove

Wordle in VHDL | *Class Project* August 2023
- Programmed an FPGA using VHDL to design a digital circuit that implemented the Wordle algorithm
- Designed the SCI receiver and transmitter to interact with PuTTY

AWARDS

The Porter Prize (Undergraduate Award), Amherst College, Amherst, MA May 2022
- Honored by the Amherst Physics and Astronomy department as the highest-achieving first-year student in an Astronomy class

Philip R. Jackson Prize, Dartmouth College, Hanover, NH August 2023
- Best overall project in ENGS 21 class out of 13 groups
- Awarded by a review board of Professors and Professional Engineers for our invention of **PneumaGlove**

ATHLETICS

Dartmouth College Men's Varsity Soccer, Hanover, NH August 2023 - March 2024
- 40+ hours a week dedicated to training, lifting, and playing games
- D1 Ivy League student-athlete taking a complete engineering course load

Amherst College Men's Varsity Soccer, Amherst, MA August 2021 - May 2025
- NCAA D3 National Champion 2024
- NESCAC Player of the Week Award, NESCAC Champions 2022, and NESCAC All-Academic Team 2022-2024

SKILLS

- Intermediate programming experience in C, C++, Java, Python, MATLAB, x86 Assembly, VHDL, and LaTeX
  - Python Libraries: NumPy, PyTorch, SciPy
- Design experience in Fusion 360, Solidworks, LTSpice, Kicad, and Eagle
- Embedded programming experience using Raspberry Pi, FPGA, ARM Microcontrollers, and Arduino