Davis Hood

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EDUCATION:

Syracuse University, College of Engineering and Computer Science — **Anticipated May 2026**
Bachelor of Science, Electrical Engineering — **GPA: 3.06**

SKILLS:

Hardware: Microprocessors, signal generators, digital signal processing, digital logic design, analog and digital circuits
Software: Visual Studio Code, Quartus Prime, Digilent WaveForms, Multisim, Docker, Github, Wordpress, Raven, Power World Simulator, MatLab
Languages: C, C++, CSS, HTML, JAVA, PHP, Python, VHDL
Interests: Finding solutions to complex electrical problems using applied prototyping, research, and design techniques
Other: English, French

ENGINEERING EXPERIENCE:

Engineering Intern, HII Mission-Technologies, Syracuse NY — **June 2025 – August 2025**

- Collaborated with a team of fellow engineering interns researching, designing, and developing a custom radio transceiver. Contributed GUI front-end and RF back-end code integration for the radio transceiver.
- Conducted lab testing of complex electrical products via signal generators and custom code scripts for data analysis.
- Documented all relevant resources, methodology developed, results, and high-level conclusions for all coworkers working on these complex electrical products.
- Presented my contributions, rationale, and lessons learned to coworkers within the company at the end of the internship.

AEW Facilitator, Syracuse University, Syracuse NY — **August 2024 – December 2024**

- Facilitated Calculus III to engineering Sophomores via curated lesson plans and exercises
- Collaborated with fellow AEW Facilitators to develop program content, evaluate problems, and troubleshoot scenarios
- Reinforced classroom content from math courses to improve student understanding of Calculus III

Invent@SU, Syracuse University, Syracuse NY — **May 2024 – June 2024**

- As part of a team, invented new technology by designing an electromagnetic docking support system for manual wheelchair lifts
- Presented a business plan supporting the justification for the commercialization of the invention, conducted a thorough patent search, and computed design calculations, all within budget
- Designed and created the circuitry to dictate the control system, input device, and power the electromagnet. Employed an Arduino board, various circuit elements, and C++ code software to ensure docking system functionality
- Presented findings to donors and potential stakeholders. Team efforts resulted in achieving 2nd place

Undergraduate Research Assistant, Bioacoustics and Behavioral Ecology Lab, Syracuse University — **January 2024 - Present**

- Employing audio and kinesthetic data extracted from the field to analyze signal data, developing custom programming to better understand the behavior of marine animals
- Project scope includes individual whale identification capabilities via whale calls in addition to improving measurement accuracy utilizing a custom drone equipped with a LIDAR sensor, GPS module, and a module to track drone orientation

IT Manager, The Daily Orange, Syracuse NY — **January 2023 – September 2025**

- Employ technical experience for web development, server maintenance, and daily support for Daily Orange staff with computer problems in a time-critical journalism publishing organization
- Collaborated with designers and other web developers to create a new Daily Orange webpage layout. Implemented PHP, HTML, CSS, and JavaScript code in a GitHub repository to improve user interfaces
- Compile internal procedures and references for current and future employees to accomplish Daily Orange publishing tasks, improving overall Daily Orange organizational efficiency

LEADERSHIP/ACTIVITIES:

ECS Excelerator, Syracuse University — **March 2023 – March 2025**
Goon Squad Volunteer, Syracuse University — **August 2023, August 2024**
Research and Development Club Programming Chair, Syracuse University — **January 2023 – May 2023**
Ridge High School Boys Volleyball Varsity Captain, Basking Ridge NJ — **March 2022 - May 2022**
William Annin Middle School Girls Volleyball Assistant Coach, Basking Ridge NJ — **September 2021 - November 2021**