

Cooper Hawk

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Education

Florida Polytechnic University | August 2024–Present
Bachelor of Science, Electrical Engineering
Expected Graduation: May 2028 | GPA: 4.0

Technical Projects

Florida Polytechnic University Lakeland, Florida

Audio Amplifier Circuit with LM386

February 2026–Present

- Built and tested an LM386 audio amplifier with adjustable gain, driving a speaker from a low-amplitude input signal.
- Configured and tested input signals using a function generator.
- Implemented a potentiometer volume control and evaluated gain and signal behavior using an oscilloscope and multimeter.

Florida Polytechnic University

Lakeland, Florida

Comparator-Based Thermostat Circuit

January 2026

- Implemented an LM358 comparator circuit with adjustable reference voltage to model thermostat control logic.

Florida Polytechnic University

Lakeland, Florida

Engineering Skills and Design Ornament Project

October 2025–December 2025

- Designed and assembled a basic blinking-light circuit for a functional product.
- Used SolidWorks to model enclosure and integrate electrical components.

Florida Polytechnic University

Lakeland, Florida

Remote-Controlled Etch-A-Sketch

February 2025

- Programmed an Arduino-based control system in C++ to drive servo motors from joystick input.
- Integrated electrical and mechanical components in a team-based prototype, testing and troubleshooting system behavior.

Professional Experience

Florida Polytechnic University

Lakeland, Florida

Office of Student Experience Event Planner

July 2025–Present

Coordinated budgets and event operations with student leaders and university departments

- Curated engaging event experiences tailored to student needs, increasing event attendance and overall student satisfaction.
- Built strategic partnerships with vendors and campus departments to streamline event logistics and elevate event quality.

Cracker Barrel

Jacksonville, Florida

Retail Associate

February 2024–Present

Performed customer service and retail duties, including sales transactions, merchandise organization, and maintaining an orderly store environment.

- Collaborated with team members to meet daily sales goals and ensure smooth store operations.

The LEGO Group

Jacksonville, Florida

Brick Specialist

November 2023–January 2024

Assisted customers with product selection, and supported daily retail operations to create an engaging and organized environment.

- Leveraged LEGO building experiences to teach creative problem-solving, engineering concepts, and hands-on design thinking.

READ USA

Jacksonville, Florida

Ambassador Tutor

November 2022–April 2023

Worked with a city sponsored nonprofit organization to bring educational access to underfunded regions of Jacksonville.

- Led a small team of tutors with the aim of guiding at least 16 students to a proficient literacy level.
- Assisted in establishing the first reading tutoring program at Hogan-Spring Glen elementary school.

Presentations & Leadership

Keynote Speaker – Ellucian Live 2025

Orlando, Florida

April 2025

- Invited to participate in a keynote presentation on the future of technology in higher education.

Activities

Jacksonville Zoo and Gardens

Jacksonville, Florida

ZooTeen! Lead

June 2021–May 2023

Supervised and guided teen volunteers, coordinating activities and assisting staff to support educational programs and guest experiences.

- Helped raise over \$6000 for wildlife conservation over 2 years.
- Managed and oversaw the ZooTeen! Program.