

# Tyler Ramsawak

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## EDUCATION

**University of Florida – GPA: 4.0/4.0**

**August 2025 – Present (Sophomore)**

*B.S. Electrical Engineering*

**Lake Mary Preparatory School – Weighted GPA: 4.5/5.0**

**August 2022 – May 2025**

*SAT: 1530*

## PROFESSIONAL EXPERIENCE

**Sole Proprietor – Ramsawak Radio Service**

**September 2024 – Present**

- I **repair and reverse engineer** damaged or otherwise broken audio equipment (amplifiers, reel to reel tape decks, turntables, etc.) for Reverb, an online musical gear marketplace.

**Prosthetic Designathon Winner – UF x General Relief in Prosthetics**

**March 2026**

- Served as **hardware lead** in a 3-person interdisciplinary engineering team to design a novel medical toy to support developing motor skills in infants with cerebral palsy. Designed low-voltage, medical-grade DC circuit on a PCB that contributed to winning the competition.

**AI Robotics Competition Participant – AMD x Hack Club**

**December 2025**

- Led and **nationally competed** a multi-axis, computer vision-guided robot arm to automate s'more manufacturing in a 3-person interdisciplinary team. Built the oven temperature controller, motor driver, touchscreen display, and software for both the AI and hardware.

**Home Game Dugout Food Service – Lake Mary Preparatory School**

**August 2023 – May 2025**

- Made hot dogs and hamburgers, **took orders, collected cash** or digital payments, and served dugout customers in a **fast-paced** and unfriendly environment. Worked with other students.

## PROJECTS

**Motorola MicroTAC VoLTE Telephone**

- Mobile cellular telephone featuring a custom LED matrix controller, contact book, SMS messaging, USB-C PD fast charging, and a real-time operating system.

**Hewlett-Packard HDSP Display Driver and Library**

- Custom LED matrix display controller. Utilizes USB-C Power Delivery Protocol for multi-cell fast charging and portability.

**USB-C-Interfaced Typewriter Karaoke Machine**

- Spotify API-integrated karaoke machine that displays lyrics on an autonomous typewriter.

## SKILLS

**Programs:** KiCAD, Solidworks CSWA | **Programming:** C++, Python, HTML/CSS, JS, PHP, VHDL

**Trades:** Electrical (wiring, CCTV, appliance repair), (*some experience*): Tile Masonry, Shoe Cobbling

**Spoken Languages:** English, (*learning*): Spanish | **Musical Instruments:** Guitar, Electric Bass, Piano

## LEADERSHIP INVOLVEMENT

**Secretary/Treasurer – National Honor Society (high school)**

- Managed finances for my high school senior prom
- **Multiplied** NHS OneBlood blood drive donations **x2 to \$1k** in a very small school

**Vice President – Asian American Pacific Islander Association (high school)**

- Co-organized our food truck events 2x in high school to feature more Asian cuisine

## INTERESTS

I am interested in seeking a summer internship or temporary job in the electrical engineering discipline to broaden and apply my electronics skills and knowledge. I am passionate about analog systems like synthesizers and amplifiers, and would appreciate the opportunity to work on anything electronic to sharpen my expertise.