**Cole Rottenberg**

<cole.rottenberg@gmail.com>

(407) 961-0600

**EDUCATION**

**Bachelor of Science in Computer Engineering** May 2024

University of Florida GPA: 3.67/4.00

**EXPERIENCE AND PROJECTS**

**Gyroscope Interpreter(C)** Spring 2023

*Microprocessor Applications*

* I successfully established communication between on-board IMUs and a microcontroller, using my expertise in C programming and technical manual comprehension. I processed the received data in real-time and utilized USART protocol to pipe the data to a neighboring computer. This demonstrated my ability to work with complex technical systems and my proficiency in implementing real-time data processing solutions.

**Audio Processing(MATLAB)** Fall 2022

*Signals and Systems*

* Processed corrupted audio using FFT and MATLAB, applied a band reject filter to remove noise and reconstructed the signal. Demonstrated expertise in DSP and MATLAB programming.

**FPGA-based CPU(VHDL)** Fall 2022

*Digital Logic*

* Designed and implemented a custom CPU using VHDL on a Field-Programmable Gate Array (FPGA) platform. Utilized digital logic concepts and FPGA architecture to create a fully functional CPU with basic instruction set and memory interface. I successfully tested the CPU with digital signal simulators and bread boards.

**INVOLVEMENT**

**Florida Crypto and Alternative Assets Club** Fall 2021 – Present

*Treasurer, Associate, Developer*

* Lead for team of four discussing the theoretical advantages of certain L2 coins and the future of the off-chain work, roll ups, and zero knowledge proofs. Present knowledge on topics and make recommendations for use cases.
* Developing simple decentralized apps focused on the emerging possibilities of zero knowledge work and NFT exchange and minting.

**Product Space** *Fellow* Spring 2022

* Collaborated with a community of product enthusiasts to build innovative solutions for real-world problems.
* Attended workshops and received mentorship from experienced product leaders to enhance skills in product design, development, and management.
* Participated in networking events to expand professional network and build relationships with like-minded individuals.

*Skills*: C/C++, Go, Python, JavaScript, Java, ARM and AVR ASM, VHDL, MATLAB, SolidWorks