

Trinity Collector

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Objective

Electrical engineering major with a minor in social justice with passions about the integration of equity and technology. Skilled in product development and design which is demonstrated through the creation of 'SUPERSTAR', an electronic parking assistant for automobiles. Currently seeking an internship or co-op position for the summer of 2023 or 2024.

Education

Georgia Institute of Technology | Atlanta, GA

August 2021 – Present

Completing a Bachelor of Science Degree in Electrical Engineering

Expected Graduation, May 2025

Minor in Social Justice

GPA **3.3**

Skills

Programming: Python, C++

Platforms: Circuit Studio, Atolic: TrueSTUDIO

Hardware: Physical Design, Trend Analysis, VLSI Systems, Digital Design

Software: GitHub, SRAM Memory

Professional Organizations: National Society for Black Engineers, Georgia Tech Society of Women Engineers

Languages: English (fluent), Spanish (conversational)

Experience

IMR Engineering | Snellville, GA

October 2018 – August 2021

Apprenticeship

IMR, Ideas made real, Engineering is an Electronics Design and Consulting company specializes in embedded Hardware and Firmware solutions that support all facets of Design, Review, Testing, Debug, Regulatory Compliance and Manufacturing Support.

- Designed and built an electronic parking assistant named "SUPERSTAR" that measures and displays a user's distance from their desired parking position.
- Constructed Schematic pages, PCBs, and created their respective component libraries
- Orchestrated the circuit design for the first revision of Applied Concepts Incorporated (ACI/Stalker)'s Black Ice Detector
- Utilized C programming Language to employ SUPERSTAR's user interface elements (bi-color LEDs, distance, error codes)

Re'Generation Movement | Clarkston, GA

May 2022 – August 2022

Internship

Regeneration movement is a non-profit social organization that aims to empower young diasporas (refuges, immigrants, and first-generation Americans) to become peacemakers through education, political involvement, and personal development.

- Became certified in Narrtive4 Story Exchanges, a global storytelling movement to bridge gaps in inequality and facilitate community growth.
- Led a small group of young women to speak on problems that minority women experience in the workplace, classrooms, and political institutions and provide solutions.

Opportunity Research Scholars (ORS) | Atlanta, GA

August 2022 – Present

Undergraduate Research Fellowship

ORS is a nationally known undergraduate program that enables undergraduate students to participate in research.

- Implemented technology node scaling in Gate All-Around and FinFet architectures within SRAM cell arrays at the 3nm process node and analyzed cell performance through consideration of parasitic R and C values.
- Integrated code for the 3nm node into a memory simulator using C++ and sourced formulas for parasitic capacitances.
- Led a literature review of similar intellectual pieces to affirm research.