NAHJAY BATTIESTE

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EDUCATION

Broward College   *August 2022 - May 2024*
AA-Associate in Arts (Transfer Major: Computer Engineering)   *August 2024 - May 2026*
Transfer Destination: University of Florida
Overall GPA: 3.93

WORK EXPERIENCE

Cell Antenna Corporation   May 2023 - Present
Software Engineering Intern   *Coral Springs, FL*

· Transformed complex command line parameter manipulation into an intuitive GUI for an SDR on a Yocto Linux system, enhancing frequency generation efficiency.
· Engineered an API to decode specific NMEA sentence formats from GPS devices, providing accurate altitude, latitude, and longitude data for a direction finder application.
· Collaborated on developing a scanning and jamming device that disrupts frequencies including Wi-Fi and Bluetooth. Resolved development issues to optimize device performance.
· Designed a full-stack direction-finding website integrating data from an antenna array, resulting in an intuitive user interface.

Baker Hill Industries, Inc   November 2022 - April 2023
Mechanical Engineering Intern   *Coral Springs, FL*

· Modeled customer parts using SolidWorks, ensuring accurate designs and adherence to customer specifications.
· Developed efficient manufacturing and tooling operations for customer parts, improving product quality and lead times.
· Constructed fixtures for secure part-holding during manufacturing processes, optimizing production efficiency and reducing errors.

Sintavia   June 2022 - October 2022
Mechanical Test Engineering Intern   *Davie, FL*

· Assisted in creating new aerospace additive manufacturing parameters in a metallurgical lab, by conducting analytical testing.
· Participated in a mechanical testing lab, by validating different materials and developing effective processes for their applications.
· Operated three CNC machines as part of routine machine shop operations, including the creation of tensile test specimens.

PROJECTS

Arduino Weather Station

· Programmed a fully functional Arduino-based weather station utilizing temperature and humidity sensors, real-time clock (RTC) module, and an LCD display, enabling real-time monitoring and display of environmental conditions.
· Implemented data acquisition and processing algorithms in Arduino programming to collect and interpret sensor data.

Hardware Accelerator Project for Machine Learning

· Conceptualized, designed, and executed a high-performance FPGA hardware accelerator using Verilog to optimize machine learning model training and inference processes. Managed the entire project life cycle, from architecture definition to implementation.
· Employed a methodical approach to validate the hardware accelerator's performance, conducting comprehensive testing to ensure optimal functionality, showcasing my attention to detail and a commitment to delivering high-quality results.

Gesture-Controlled Smart Home System

· Designed and developed a comprehensive gesture-controlled smart home system, encompassing a full-stack architecture with a mobile app interface, integrating hardware sensors and AI-based recognition to enable seamless and intuitive home automation.

TECHNICAL SKILLS

Programming Languages	C, C++, Rust, JavaScript, Python, SQL, Bash, CSS, HTML, Assembly, Verilog, and Swift
Tools and Technologies	SolidWorks, Git, VS Code, Docker, React, Linux, TensorFlow, Express.js, and Node.js
Certifications	CSWA, OSHA-10, Six-Sigma, NIMS MMS, and NIMS CNC