JOSHUA ACEVEDO

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EDUCATION

University of Florida, BS in Electrical Engineering **Projected Graduation Date: May 2027**
B.S. Electrical Engineering GPA 3.76/4.00

- ***Coursework:*** *Microprocessors Applications, Intro to Signals and Systems, AI Fundamentals, Digital Logic and Computer Systems, Entrepreneurship for Engineers, Intro to Programming for Electrical Engineers,*
- ***Certifications:*** *ITF+ certification, Lifeguarding with CPR/AED for Professional Rescuer and First Aid, Citi Bank Scholar*
- ***Languages:*** *English, Spanish*

WORK EXPERIENCE

Smart Systems Lab – Gainesville, FL **June 2024 – Present**

- Second author on "Intent-Bert and Universal Context Encoders: A Framework for Workload and Sensor Agnostic Human Intention Prediction," where I leveraged AI to be able to sort through over 500GB of coordinate data to tell human intentions with 40-60% accuracy
- Developed Python scripts and researched simulation tools to convert CSV files into JSON and Parquet formats, enabling compatibility with a simulation tool to reduce energy consumption in Citibank data centers.
- Leveraged Llama to be able to create an ontology of contracts to label key terms as well as find overlapping areas, saving millions of dollars in contract valuations, thanks to canceling subscriptions
- **Technologies:** Python, TensorFlow, OpenAI External API, OpenDC, Llama API

Volera Technologies – Pembroke Pines, FL **Aug 2024 – Present**

- Co-founded JustAsk software, an education app for professors that allows students to ask questions anonymously during lectures
- Utilizes AI to categorize questions, allowing the professor to understand how well the students understood the topic
- Established LLC and Financials for the company, as well as doing customer outreach to convey needed features to the lead software engineers on the project

General Electric Appliances – Louisville, KY **August 2025 – Present**

- Tasked with using Cadence Allegro software to design a PCB for a plug-and-play solution to be able to program SBCs on the assembly line with proper ergonomics
- Performed testing on SBCs, PCBs, and other hardware components of appliances to ensure reliability under stressful conditions including intense heat of up to 80 degrees Celsius for weeks at a time, and ensuring noise from appliances won't interfere with the microphone and speaker capabilities

PROJECTS

Go Kart Telemetry Reader

- Using an ESP-32 and a Time-Of-Flight ranging sensor, I created a solution that could measure the distance between a reference point and the pedal of a go-kart to be able to tell brake and throttle inputs to enable racers to improve their lap times
- After the data is imported via SIM card or Bluetooth to a custom app, users can view it and use an AI tool to see what the optimal inputs are over the course of a lap by comparing sector times to inputs
- **Technologies:** Python, C, Cadence Allegro, HTML, CSS

Club Manager

- Utilized OpenCV and Tesseract OCR to perform mobile automation for a cluster of phones. Implementing a system of full control and management for users of the app to be able to perform functions that don't natively exist in the app
- Implemented sophisticated image processing pipeline with CLAHE enhancement, adaptive thresholding, and morphological operations, created an intelligent coordinate merging system with distance-based duplicate detection, achieving a 95% UI recognition accuracy, as well as designing a comprehensive GUI testing interface and controls for device farm management
- **Technologies:** Python, OpenCV, Tesseract OCR, Android Debug Bridge (ADB), Tkinter, NumPy, Pillow, JSON

AI DJ

- Developed an embedded serial communication system using USART peripheral configuration with baud rate generation, data frame formatting, and interrupt-driven character reception to monitor incoming serial data from external devices
- Implemented real-time character detection and processing logic with GPIO control to trigger LED activation upon specific character transmission, demonstrating low-level microcontroller programming and hardware-software integration
- **Technologies:** MATLAB, C

LEADERSHIP AND INVOLVEMENT

UF Table Tennis Club– Gainesville, FL **April 2024 – Present**
Vice President

- Started and managed a Table Tennis tournament which had UF students, UF alumni, and students from other schools attending
- Organized fundraisers and Volunteer activities, which represented the club in a positive light

TECHNICAL SKILLS

Programming Languages: *Python, C++, Ruby, Ruby on Rails, C,*