JOSHUA ACEVEDO

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EDUCATION

University of Florida, BS in Electrical Engineering **Projected Graduation Date: May 2026**
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," which uses AI to be able to tell human intentions with 40-60% accuracy
- Leveraged prompt engineering and prompt design to design and use Chat-GPT assistants in combination with Python programs, which over 500 GB of coordinate data from 10's of thousands of JSON files
- 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 Citi Bank 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 which 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

Building Automations Systems – Pembroke Pines, FL **June 2021 – Present**
Field Technician

- Aided in the maintenance and repair of HVAC Systems specifically maintenance in moving electrical parts
- Assist in any network and program issues that would arise when connecting automation systems

PROJECTS

Smart Hub Manager

- Developed a comprehensive, enterprise-grade service business management platform for multi-tenant field service organizations, architecting a full-stack web application with real-time job scheduling, CRM, service catalog management, and a business intelligence dashboard
- Implemented multi-role permission system with granular access control and Firebase security rules, built real-time data synchronization with conflict resolution, optimistic UI updates, and offline capability for field technicians
- **Technologies:** Next.js, React, TypeScript, Firebase, JavaScript 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 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,*