Taylor Tillander

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EDUCATION

Bachelor of Science in Computer Engineering GPA: 3.75/4.00

Certificate in Artificial Intelligence Fundamentals and Applications

University of Florida, *Gainesville, FL* December 2025

President's Honor Roll Spring 2022

Dean's List Spring 2022, Fall 2022, Spring 2023

Relevant Coursework: *A.I. Fundamentals, Circuits, Computer Organization, Data Science, Data Structures & Algorithms, Digital Logic & Computer Systems, Discrete Structures, Machine Learning, Signals & Systems, Statistics*

WORK EXPERIENCE

Stephen C. O'Connell Center Gainesville, FL

Technical Supervisor *September 2023 - Present*

- Led technical event crews by communicating with organizers for electrical and technical needs.
- Managed the building's power systems, operated wiring, spotlights, and provided video and audio projection services for the O'Connell Center events.

Datamaxx Tallahassee, FL

Software and Quality Assurance Engineer *May - August 2023*

- Programmed over 80% of the front end of a new package being offered by Datamaxx using Ajax, ASP.NET Razor, C#, CSS, HTML, JavaScript, jQuery, and XML.
- Used Katalon Studio, an automated data-driven testing software, and Groovy, a programming language for the Java platform, to test code for bugs and inconsistencies.

INVOLVEMENTS

IEEE UF Student Branch *September 2022 - Present*

- Built technical skills involving Microcontroller Units, Digital and Analog Systems, Pulse-width Modulation, Transistors and Serial Communication as a part of IEEE's Open Project Space group.

Solar Gators *January - May 2023*

- Placed first in the 2023 Formula Sun Grand Prix after working on the embedded programming of the backup camera that was fed to the steering wheel using C, I2C Protocol, and STM32 microcontrollers.

PROJECTS

CPU Design *Fall 2023*

- Designed the Control and Datapath of a CPU in Quartus using VHDL, taking 9-bit machine code and using an ALU, registers, components, and signals to output the result of the instructions.

Spotify Statistics *Fall 2023*

- Created a program that analyzes a user's Spotify listening history (100,000+ rows) using ordered and unordered maps to compare efficiency and speed. Users can explore the frequency of their listens for their top N songs and artists or search for specific tracks/artists to view their listening habits.

Audio Amplifier Circuit *Spring 2023*

- Designed, constructed, and tested an audio amplifier circuit with a high pass filter, variable gain amplifier, LED peak detector system, and a left and right stereo output.

SKILLS

- Programming Languages: *C, C++, C#, Groovy, JavaScript, MATLAB, Python, SQL, VHDL*
- Tools/Other Skills: *Ajax, Arduino, ARM Assembly, ASP.NET Razor, Bootstrap, CSS, Digilent Analog, FPGA, gdb Debugger, Git, GitHub, jQuery, JSON, Jupyter, LTSpice, Microsoft (Excel, Office, PowerPoint, Teams, Word), NumPy, Onshape (CAD), Pandas, Quartus, Soldering, Spanish (Proficient), STM32, Visual Studio, VSCode, XML*