

Wesley P. Piard

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EDUCATION

University of Florida

Master of Science, Electrical Engineering
GPA: 4.0/4.0

Jan. 2020 – Present

University of Florida

Bachelor of Science, Electrical Engineering
GPA: 3.9/4.0

Jan. 2016 – Dec. 2019

Santa Fe College

Associate of Arts, Engineering
Core GPA: 3.9/4.0
Cumulative GPA: 3.7/4.0

Aug. 2013 – Dec. 2015

WORK EXPERIENCE

Altavian, Inc.

Electrical Engineering Intern

Jan. 2019 – Dec. 2019

- Hardware/PCB design (high speed serial interfaces, power, system design, etc.)
- PCB component database library overhaul using templates and creating a standard protocol
- Hardware testing and debugging

University of Florida

Assistant Lecturer / Teaching Assistant – Microprocessor Applications 1

May 2017 – Present

- Lectured for the course weekly to supplement the main course topics
- Created a series of public instructional videos for students to watch and reference
- Restructured and overhauled the course to accommodate new hardware
- Held lab sessions, office hours, and review sessions
- Helped write and grade labs and exams

Teaching Assistant – Design 1 and Design 2

May 2019 – Present

- Electrical/Computer Engineering capstone final design courses required for graduation
- Helped debug and teach students a wide variety of topics: different types of microcontrollers, analog filters, power supply circuitry, interfacing with several types of devices, etc.

SKILLS

- Proficient with Altium Designer versions 17, 18, and 19, Microsoft Word, and Excel
- Experienced in C, familiar with C++, MATLAB, and VHDL
- Familiar with Atmel XMEGA128A1U, TI MSP430/432, and TI TMS320F28335 microcontrollers/DSPs
- Embedded systems, basic Wi-Fi connectivity, and FPGA/SoC systems

PERSONAL PROJECTS

- Designed custom development PCB for an ATSAME70N19 microcontroller (ARM Cortex M-7 core)
- ECE Design 1 project – Created an audio in/out system that also measured and displayed audio levels using an MSP432 microcontroller. I did all the schematic and PCB design of the audio and MSP432 circuitry.

RELEVANT COURSES

- Integrated Product/Process Design 1 and 2
- Digital Signal Processing Applications
- Microprocessor Applications 1 and 2
- Reconfigurable Computing
- Digital Design
- Electronic Circuits 1
- Digital Logic/Computer Systems
- Solid State Electronic Devices
- Foundations of Digital Signal Processing
- Advanced Systems Programming
- Cross Layered System Security