Veronica Sanchez

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EDUCATION

Bachelor of Science, Electrical and Computer Engineering, Graduation 05/2023
The University of Texas at Austin
Overall GPA: 3.89/4.00
Relevant Coursework:
Software Design and Implementation II, Digital Logic Design, Computer Architecture, Embedded Systems Design Lab, Probability and Random Processes, Circuit Theory, Linear Signals and Systems, Discrete Mathematics, Algorithms
Current coursework: Real-Time Digital Signal Processing Lab, Operating Systems

WORK EXPERIENCE

Engineering Intern, Samsung Austin Semiconductor, March 2022 – August 2022 (40 hrs/week)
- Created documentation for multiple tools that will be used to verify parameter adjustments that effect product wafers
- Optimized tool qualification that significantly reduces the amount of time used for testing parameter specifications, thus returning the tool to production line sooner
- Collaborated with my mentor and other engineers on the development of tests to improve tool lifespan

EE411 Circuit Theory Teaching Assistant, University of Texas at Austin, January 2021 – Present *(10 hrs/week)*
- Ensure students understand the concepts being presented in lecture
- Provide clarification to student questions relating to homework, labs, etc.
- Grade student assignments and offer feedback as needed

ACADEMIC EXPERIENCE

Jukebox Design *group project* **Spring 2022**(35 hours)
- Headed circuit and PCB design utilizing Autodesk Eagle and soldering experience
- Utilized LCD, TM4C123 microcontroller, SD card, and our PCB
- User interface design in C makes use of periodic and user-based interrupts, reading Wav files from SD card, DAC processes, Wi-Fi communication processing via virtual pins, etc.
    - Allowed users to skip/restart song, select song from available library, pause/play song, change volume, and change colors/pattern of LEDs through either physical buttons on jukebox or via the Blynk app

Weather App **Spring 2022** (20 hours)
- Employed web service API to pull local weather information
- Implemented user interface design in java via object-oriented programming consisting of multidirectional scrolling and icons depicting weather information

SKILLS

Programming skills: Java, C, LC3 Assembly, ARM Assembly, C++, Linux, and Verilog
Experience with: LTSPICE, Autodesk Eagle, TI TM4C123G microcontroller, Sparkfun Redboard, Raspberry Pi, CADing software including Autodesk Fusion 360 and AutoCAD, Digital Multimeters, Logic analyzer, Oscilloscope

Memberships

Engineering Honors Program *2020*
IEEE *2020 – Present*
Women in Electrical and Computer Engineering *2019 - Present*
Women in Engineering Program 2*019 - Present*