Brandon Hawi

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Education

University of California, Irvine (March 2020)
B.S., Computer Science and Engineering

College of the Canyons (June 2016)
A.S., Mathematics

Obtained an Associate of Science Degree in Mathematics with honors while concurrently attending high school.

Professional Experience

Skyworks Solutions, Inc. (June - Present)
Software Engineer Intern (Wafer Foundry Engineering)

Working as a software intern at the Wafer Foundry Engineering Group at SkyWorks Solutions to automate processes to speed up cycle time of mask production and trend analysis, maintain an internal website created using C# and ASP.NET to run Python scripts, and work with Calibre DRV and other EDA tools to automate other processes using shell scripting.

Axxiom Data, Inc. (May - September 2017)
Software Intern

Worked directly under the CEO of Axxiom Data to help develop new solutions within Axxiom's content management system. Experienced using the Git VCS and other development technologies.

Projects

SystemVerilog RISC-V Processor (2019)

Designed a 5-stage pipelined processor in SystemVerilog utilizing SystemVerilog interfaces and other SystemVerilog programming features. After designing the processor, I reworked parts of the processor to be synthesizable; the synthesis ran at a clock speed of 3.8 ns (260 MHz).

Python SoundCloud Scraper (2019)

Wrote a Python script that scraped SoundCloud's website and checked specific artists' profiles occasionally for new music uploads. I would manually update the list of artists and the script would send me a text using an API called Twilio.

Discrete Cosine Transform VHDL (2018)

Designed and simulated a Discrete Cosine Transform circuit using VHDL and Xilinx. The chip was designed to be used for video compression.

Other Experience

Engineering Conference UCI
Project Manager, Design Lead

Led a team in researching and compiling a 41 page research report detailing the implementation of an autonomous vertical farm that utilized an evolutionary algorithm and a convolutional neural network to improve biomass yield every iteration. The research report was published by the University of California, Irvine and can be found on their eScholarship website.

Kappa Sigma Fraternity
Treasurer, Website Designer, Recruitment Chair

Organized biannual recruitment for three years, managed a yearly $150,000 yearly budget, and designed the organization's website.

Technical Skills

Languages

C, C++, C#, Java, SQL, HTML, CSS, JavaScript, Python, LaTeX

Tools

Unix, Linux, Xilinx, VHDL, ASP.NET