Jasmine Dirksen

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Education:

California Polytechnic University San Luis Obispo
Sept 2012 – Dec 2013, Mar 2017 - present
B.S. in Computer Engineering expected December 2019

Computer Science Coursework:
- Fundamentals of Computer Science
- Design & Analysis of Algorithms
- Systems Programming
- Computer Architecture
- Intro to Operating Systems
- Intro to Computer Graphics

Electrical Engineering Coursework:
- Digital Design
- Electric Circuit Analysis
- Continuous Time Signals & Systems
- Semiconductor Device Electronics
- Digital Electronics & Integrated Circuits

El Camino College
Jan 2014 – Dec 2016

Projects:

Deep Sea Maze   Dec 2018
- Designed an underwater maze that the user navigates using a submarine.
- Incorporates rotation, textures, Blinn-Phong shading, and AABB collision detection in OpenGL.

RAT Assembly MCU   Nov 2017
- Built a Harvard architecture RISC MCU in VHDL
- Generated instructions for the MCU using RAT assembly code, the results of which were displayed via an FPGA board.

Huffman Encoder   May 2017
- Developed an encoder that compresses text files into binary files & vice versa.
- Builds the Huffman tree in order of ascending frequencies, using ASCII values to break ties.

Simple Calculator   May 2017
- Designed a calculator in VHDL using standard modules.
- Reads in two binary numbers from an FPGA board and performs simple operations (add, subtract, multiply, divide).

Web Development   Jan 2019
www.ashleydirksen.com
- Consulted with client to create personal professional website
- Wrote "About" page & structured website in a user-friendly manner

Mastermind Game   Dec 2015
- Recreated the game "Mastermind" using Java's GUI
- Implemented Java's listener classes to account for user input

Skills:

Proficient in Java, C, C++, Python, VHDL, RAT Assembly, HTML, CSS
Familiar with OpenGL, Processing, Auto-CAD, MIPS, Houdini FX, Adobe CS
Fluent in Spanish

Activities:

Multicultural Engineering Program	2012-2013
Institute of Electronics & Electrical Engineers Student Branch	2017-present
Women in Software & Hardware	2017-present