

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

January 2014 – December 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.

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

Work Experience:

Waitressing

- Chicken Shack Jun 2014 - Nov 2015
 - Toraji Ramen Aug 2016 - Mar 2017
- Parking Attendant
- Modern Parking Inc. Jun 2018-Aug 2018