David Clark

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Education

Brigham Young University   August 2021
B.S. degree, Computer Engineering   Provo, UT

- Created Space Invaders from scratch on a Xilinx Pynq board (C)
- Developed a Family Map Server and Family Map Android Client (Java)
- Coded Touchscreen Whack A Mole game, unbeatable tic tac toe, laser tag system (C)
- Ported Zephyr to the HALucinator Project by writing Python intercept functions, my team ported the File System API (Python and C)
- Created a basic Twitter app using AWS services (Java)

Programming languages

- Arduino, C, C++, Python, Java, Assembly Language, System Verilog, Bash

Experience

Physics Electronic Support Lab, Brigham Young University   Dec 2019-April 2021
Lab equipment specialist   Provo, UT

- Repaired damaged and malfunctioning electrical equipment, designed Printed Circuit Boards (PCBs) in Autodesk Eagle
- Learned and utilized Zurich lab's Multifunction Impedance Analyzer (MFIA) to assist professors in designing frequency filters and blood flow sensors.
- Repaired broken switches on power supplies and burned out diodes on signal generators by finding broken/damaged components and soldering replacements.

Provo Bicycle Collective   Jun 2018-Feb 2019
Assistant Programs Manager   Provo, UT

- Repaired and maintained 2-3 bicycles per week
- Customized bike orders and resolved customer escalations effectively, kindly, and quickly
- Coordinated community volunteer opportunities overseeing 10 - 20 bicycle mechanics

Lavell Edwards Stadium Management, Brigham Young University   Aug 2018-Apr 2019
Event Staff   Provo, UT

- Managed large crowds, resolved conflicts among stadium patrons
- Developed customer service skills by making sure customers had their needs met

Synergy Companies   Jun 2014 - Jun 2018
Assistant warehouse manager   San Diego, CA

- Repaired, replaced, and relocated various commercial and industrial HVAC equipment

Personal

- http://davidhansenclark.com/
- Added an arduino to my Nintendo Gamecube Controller to modify inputs.
- Designed a percussive footwork sensor to create sounds for different actions
- Designed and built my own dynamo bicycle lights