

River Schenck

U.S. Citizen

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Secret Security Clearance

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Objective:

- seeking Electrical/Computer Engineering employment.

Education

• Weber State University – Ogden, UT

- Bachelor of Science in Computer Engineering
- Bachelor of Science in Electrical Engineering
- Anticipated Graduation (both degrees): Spring 2020

Projects

PONG 8051 Project

January 2018 – May 2018

- Programmed functions in C and assembly language. Used potentiometers for movement, buttons for start and stop, LED's for effects, LCD screen to display and crystals in the 8051 for timers.

Autonomous Delivery Robot

November 2018 – December 2019

- In a team of 3, developed a semi-autonomous robot for delivering materials. I developed software using C++ while implementing a PID control system. The design made use of an ultrasonic sensor, hall sensors, motor controllers, DC motors, and 8 IR sensors.

Iron Man Project

June 2018 – Current

- Designed a dry cell HHO, using electrolysis to break the bonds of H₂O into individual molecules, and a circuit that monitors the levels of hydrogen in the air. Interfaced with an LCD screen and LED's to display Hydrogen percentage. Wrote code in C++ (Visual Studio) to interface the devices.

Emphasis Coursework

1. Embedded Systems
 - Design and implementation of a microcontroller including assembly language programming, interfacing to peripherals, interrupt handling and debugging techniques.
1. Data Structures and Algorithms
 - Principles of data structures and design of efficient algorithms. Emphasis on abstraction, efficiency, re-usable code, and object-oriented implementation.
2. Computer Architecture/Organization
 - Explores specific physical and functional characteristics of computer systems. Topics cover architecture of the PC including BIOS, interrupts, addressing, memory management, and types of disk drives.

Work Experience

- Sam's Club Riverdale, UT August 2015 – March 2016
- Tire Technician
 - Evaluated motor vehicles condition to properly install new tires and batteries. Worked with customer service to make sure clients' needs were met.
- ES Solar Layton, UT March 2016 – May 2018
- Solar Contractor
 - Draft and design houses with solar system and inverter placement in SketchUp. Also, interacted persuasively and professionally with potential clients. Implemented marketing and sales skills.
- Northrop Grumman Hill Air Force Base, UT May 2019 - Current
- Embedded Systems Software Engineer
 - Perform software system analysis and maintenance on legacy systems and perform software modernization. Implement critical thinking to support Minute Man system.