

Name

Phone number
email@email.com

Skills

Proficient: C#.NET, LabVIEW, Microsoft Office, Multimeter, Oscilloscope

Familiar: Arduino, Assembly, C, Fortran, GitHub, I2C, Java, MATLAB, ModelSim, Python, Quartus, RS232, VHDL

Work Experience

Startup, Town, State

June 2019 – June 2020

Engineering Technician

- Communicated with members of different groups to identify issues with testing procedures and perform tests to eliminate potential sources of error
- Tested electrical components for incoming quality assurance
- Tested mixed signal devices to ensure functionality and adjusting parameters to obtain functionality or improve performance

University Lab, Town, State

August 2018 – May 2020

Graduate Research Assistant

- Updated and maintained previously written LabVIEW software for automation of a single optical trapping system
- Continued design and development of updated software, written in LabVIEW, for automation of a dual optical trapping system
- Updated and maintained inventory of optical components for the research lab

Projects

Title: **5 digit 7-Segment Stopwatch**

Technologies: VHDL, GitHub, RTL Viewer, Quartus, ModelSim

Purpose:

- Re-iterate and expand on knowledge of VHDL, Quartus, and ModelSim
- Learn GitHub and develop a basic understanding of version control
- The stopwatch consists of five seven-segment displays to display time down to milliseconds

Title: **Arduino Uno shield PCB**

Technologies: KiCAD, Arduino

Purpose:

- Learn about PCB design and PCB CAD programs (KiCAD for this project). Learned about schematic capture, bill-of-materials, PCB Layout, and board ordering.
- Designed an attachment for an Arduino uno to use the Arduino as a stopwatch or kitchen timer.

Title: **Traffic Light**

Technologies: VHDL, Quartus, Finite State Machine

Purpose:

- Used VHDL to implement a finite state machine to control a simplified traffic light
- Used two inputs to enter one of three operational modes (normal, emergency, and night)

Education

Graduate University, Town, State

August 2018 - May 2020

Master of Science in Engineering Physics

GPA: 3.83

Undergrad University, Town, State

August 2014 - May 2018

Bachelor of Science in Physics

Minor in Biology, Chemistry, and Mathematics

Certifications

- Certified LabVIEW Associate Developer (until April 2021)