
As a recent graduate of RIT with a bachelor's degree in electrical engineering, I am seeking employment within a company that can utilize my education and experience to augment their success while developing my professional career. I am most interested in control systems and analog design.

Experience:

Microsemi (Frequency and Timing Division) — Electrical Engineer 02/27/2017 - Present

- Implemented a cascaded PLL with an output power level controller in the design of a 12 GHz synthesizer
 - Optimized to minimize phase noise; results were over 10 times better than off the shelf components
 - Created an enclosure for the synthesizer composed of interchangeable RF shielded rack mount units
- Developed python scripts to both simulate and analyze data in response to a given set of inputs
- Delivered various informative presentations on topics such as the minimization of quantization error
- Designed PCBs for prototype designs and for evaluating incoming components

Carestream Health—Integration Testing Automation Lead 05/23/2016 - 02/10/2017

- Managed automated test suites to verify software functionality across products
- Greatly enhanced communication between the software developers, QA, and the automation team
- Utilized Agile practices daily including Scrum and Test Driven Development

Carestream Health—Electrical Test Technician 05/25/2015 - 01/08/2016

- Designed and fabricated test fixtures to evaluate the capacity of AGM lead acid batteries
- Researched battery life enhancement designs including active and passive balancing schemes
- Failure diagnosis and quality assurance testing of the X-ray machine bucky circuit boards

Skills:

Electrical: OrCAD Capture and PSpice; LTspice; EAGLE; TINA; Mentor Graphics xDX Designer and PADS Layout

Technical: Signal, spectrum, and network analyzers; signal generators; oscilloscopes; DMMs; soldering

Software: Python; Octave; Matlab; C; C++; Simulink

Other: Jupyter Notebook; Visio; CA Agile Central; FogBugz; Arduino; Solidworks

Design Projects ([Link](#)):

A Tiny Swarm: A set of miniature robots with a modular PCB attachment to alter its capabilities

The Wilmake: An all encompassing 3D printer, scanner, laser engraver, and CNC milling machine

V-Arm: A virtual reality device designed to provide kinesthetic feedback in response to virtual interactions

ASCE National Robotics Design Competition: Two second place entries; *Mini Indy* (2013) and *Fish Derby* (2014)

Education:

Rochester Institute of Technology (3.76 GPA) - Rochester, NY 2015-2016

- Bachelor of Science degree in electrical engineering
- Outstanding Undergraduate Scholar nominee
- Minor in mathematics

Monroe Community College (3.93 GPA) - Rochester, NY 2013-2015

- Associate degree in engineering science
- Mathematics Certificate