

# Daniel Wu

223 Perkins Road, Apt C, Rochester, NY 14623  
daniel@danielwu.us | (315) 559-7813 | danielwu.us

---

## Professional Summary

Graduating in 2017 with a BS in Electrical Engineering and a BS in Economics. Interested in topics, including, but not limited to, circuit design, power electronics, control systems, and programming. Available to start in summer 2017.

## Education

### Rochester Institute of Technology, Rochester, NY

- BS Electrical Engineering, BS Economics, 2017
- Cumulative GPA: 3.92
- Received the RIT Outstanding Undergraduate Scholar Award in Spring 2016.

## Related Coursework

Analog Electronics, Control Systems, Electromagnetic Fields, Semiconductor Devices

## Senior Design Project

### Composite Filament Winder

Objective is to create a machine that produces carbon fiber tubes for the FSAE car. Currently in the design and modeling phase. Team consists of four mechanical engineers and two electrical engineers. As an electrical engineer, my main responsibilities include motor control, feedback, and processing user input.

## Employment

### Vicor Corporation

Jan 2016 – Aug 2016

#### Applications Engineering Co-op

- Worked with the applications engineering department on Vicor's PRM/VTM system for 48V to point-of-load used in high current applications.
- Main responsibilities included testing, debugging circuit boards, and improving the performance of the control loop for the system.

### Welch Allyn

May 2014 – December 2014

#### Vital Signs Co-op

- Supported the design, development, and testing of a web-based solution for loading configurations into vital signs devices.
- Tested clinical usability of Welch Allyn vital signs devices with respect to power management.
- Collaborated with the hardware, software, web development, marketing, and user interface teams to support the release of a new vital signs device.

### Rochester Institute of Technology

January 2014 – May 2014

#### Digital Systems II Lab TA

- Managed lab sections for Digital Systems II.
- Assisted students with Verilog, VHDL, Quartus, and FPGAs.

### ITT Corporation

June 2013 – August 2013

#### Electrical Engineering Co-Op

- Developed a web-based condition monitoring interface to report operating conditions of centrifugal pumps.
- Utilized XML, CSS3, HTML5, and M2MXML.
- Applied principles of vibration analysis, MEMs accelerometers, and Fourier transforms.

## Skills

**Software:** Altera Quartus, Altium (basic), Automated Bench Software, Cadence Virtuoso, LTSPICE, MATLAB, Microsoft Office, SIMPLIS (basic), Visio

**Programming:** Assembly, C, HDLs (basic), HTML/CSS, MATLAB (basic), Python, XML

**Hardware:** Electronic Loads, FPGAs, Frequency Response Analyzers, Multimeters, Network Analyzers, Oscilloscopes, Power Supplies, Signal Generators, Soldering

## Independent Projects

### Raspberry Pi Security Camera

- Used a Raspberry Pi and a webcam to create a security camera.
- Camera detects motion and sends captured images via FTP.

**danielwu.us**

- Created a website during winter break 2014-2015.
- Utilized HTML5 and CSS3.

**RISC CPU**

- Created a 4-bit reduced instruction set computer using Verilog.
- Included an ALU, RAM, ROM, registers, and counters.
- Code was written to multiply two numbers, then it was tested on a FPGA.

**Volunteering****Engineering World Health Guatemala  
December 2015 – January 2015**

- Went to hospitals in Guatemala with a multi-disciplinary team of student engineers to repair medical devices and equipment.
- Repaired more than half of the devices presented to us by hospital staff, including X-ray viewers, centrifuges, aspirators, and bili lights.

**Activities**

Intramural Hockey  
Competitive Rubik's Cube