Daniel P. Taillie

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**EDUCATION**

**University at Buffalo, The State University of New York**

Bachelor of Arts with High Distinction, Cognitive Science; Minor in Mathematics, June 2015

Bachelor of Science, Electrical Engineering; Minors in Physics and Computer Science, December 2016

Masters of Science, Computer Science and Engineering, June 2018

**WORK EXPERIENCE**

**Rochester Precision Optics** 5/2016-8/2016

*Electrical Engineering Intern*

* Performed analysis of mechanical shock test fixtures using an accelerometer and oscilloscope
* Programmed a multi-motor and vision system to control the flow of liquid glass using LabVIEW
* Provided programming, electrical hardware, and machine shop assistance

**University at Buffalo/Northwestern University** 5/2015-8/2015

*Computer Programmer*

* Improvement of a web based psychology experiment (www.ssap.northwestern.music.edu)
* Webpage design using HTML, CSS, Perl, Javascript
* Processing of data using MATLAB; data storage in SQL database

**PROJECTS**

*Electrical Engineering Senior Capstone Design (EE 494)*

* Developed Arduino network for wirelessly accessing real-time data from solar panels/wind turbines

*VLSI (CSE 493)*

* Used Cadence to design SRAM arrays using sleep transistors for improved power efficiency

**LEADERSHIP AND ACTIVITIES**

**UB Nanosatellite Program**

*Science Team*

* Tested, and verified, the resolvability of the satellite lens using MATLAB

**Audio Perception and Action Lab**

*Research Assistant*

* Conducted psychology experiments; wrote computer programs to run psychology experiments
* Participated in weekly meetings discussing recent developments in audio perception

**Robotics Lab**

*Research Assistant*

* Programming robot in ROS framework to perform line following using RGB camera and PID control

**UB Wrestling Club**

*Vice President*

* Running an organized practice; teaching technique to inexperienced wrestlers
* Organizing club activities; negotiating the reservation of practice locations and times

**TECHNICAL SKILLS**

Computer Skills/Software: ROS, TensorFlow, Scikit-learnVisual Studio, Git, LabVIEW, Cadence, AutoCAD/Solidworks, Linux

Programming Languages: Java, Python, Perl, MATLAB, C, C++

Machine shop, soldering, microcontrollers, circuit design