

# Drew Buckley

[buckleyd2@wit.edu](mailto:buckleyd2@wit.edu) | 781.718.7405

[linkedin.com/in/drewebuckley](https://www.linkedin.com/in/drewebuckley) | [github.com/drew-buckley](https://github.com/drew-buckley)

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## EDUCATION

### Wentworth Institute of Technology | Boston, MA

Bachelor of Science in Electrical Engineering; Minors in Applied Mathematics and Physics

GPA: 3.94/4.00

*Relevant Courses:* Calculus (I, II, III), Differential Equations (ODEs and PDEs), Differential Geometry, Linear Algebra, Probability and Statistics, Physics (I, II), Modern Physics, Chemistry I, Microcontroller Sensor Networks, Network Theory (I, II), Analog Circuit Design, Feedback and Control, Motors and Control, Solid State Devices

Expected Graduation,  
August 2019

### Harvard Extension School | Cambridge, MA

Part Time Computer Science Program

GPA: 4.00/4.00

*Relevant Courses:* Java for Distributed Computing

Fall 2013

## TECHNICAL SKILLS

**Hardware:** Oscilloscope, Multimeter, Function Generator, TI MSP432, Altera DE0, Raspberry Pi, Arduino

**Software:** NI Multisim, Visual Studio, MATLAB/Simulink, Eclipse, Git, WireShark, VirtualBox, Microsoft Excel

**Languages:** Python, C/C++, C#, Scheme, MATLAB, R, Java, PHP, Assembly (x86, PowerPC, ARM)

**APIs and Libraries:** MEEP, VISA, .NET, NumPy, Matplotlib, Android SDK, Windows API, OpenGL, POSIX

**Operating Systems:** Windows (XP-10), Linux (primarily Debian and Ubuntu), VxWorks

## RELEVANT PROFESSIONAL EXPERIENCE

### Software Engineering Internship | Teradyne, Inc.

*Device Driver Engineer*

- Designed/implemented features and debugged issues for Windows device drivers for automated electronics testing equipment using C, C++/CLI and C#.
- Designed and implemented legacy hardware emulator using C, C++ and Assembly (32-bit PowerPC and 32-bit ARM) on VxWorks OS.
- Collaborated with an interdisciplinary team of engineers and participated in design reviews.

April 2017 – May 2018

### Computer Science Dept. Work Study | Wentworth Institute of Technology, Boston, MA

*Programmer*

Codebase: [github.com/lawrancej/logisim](https://github.com/lawrancej/logisim), [github.com/drew-buckley/logisim](https://github.com/drew-buckley/logisim)

- Contributed to an open source fork of Logisim project.
- Reviewed and vetted code contributions.
- Identified and remedied project bugs and implemented new functionality.

October 2015 – April 2016

## RELEVANT RESEARCH EXPERIENCE

### Nanoplasmonic Device Design | Wentworth Institute of Technology

*Faculty sponsored, credited, self-guided research project.*

- Researched the effects of geometry on nanoplasmonic devices.
- Collaborated with Massachusetts of Technology physics researcher to build upon existing nanoplasmonic research.

April 2018 – Present

## INDEPENDENT PROJECTS

### XMosh – Modular Cryptographic Hashing Tool

Codebase: [github.com/drew-buckley/xmosh](https://github.com/drew-buckley/xmosh)

- Designed and developed project independently.
- Implemented the MD5 and SHA family of cryptographic hashing algorithms in C.
- Documented, licensed and published the project as an open source product.

January 2014 – Present

## OTHER PROFESSIONAL EXPERIENCE

### Trader Joe's | Needham, MA

*Section Leader/Crew Member (Full-time)*

September 2013 – May 2015

### Massachusetts Audubon Society, Drumlin Farm Wildlife Sanctuary | Lincoln, MA

*Administrative Assistant & Teacher Naturalist (Full-time)*

September 2010 – September 2013