**Matthew Alexander Hawkins** 90 Spruce Street

matthew.alexander.hawkins@gmail.com Stratford, CT 06615

[www.eg.bucknell.edu/~mah045/](http://www.eg.bucknell.edu/~mah045/)  (203) 767-7816

**Education:**

* Bucknell University: Lewisburg, PA
* Bachelor of Science in Computer Engineering with a minor in Mathematics.
* Expected graduation date: May 2017
* GPA: 3.45 Cumulative / 3.68 Engineering

**Work and Internship Experience:**

Database Administrator, Lockheed Martin (Sikorsky Aircraft): Stratford, CT, June 2016 – Present

* Migration from Excel to relational solution in Access
* Automated polling of off-site database for up to date resources
* Frontend GUI development for ease of use and automation of tasks

HydroSense Researcher, Bucknell University: Lewisburg, PA, January 2016 – May 2016

* Embedded system engineer for sonde firmware
* Testing and validation of Arduino weather station

Participant, *Institute for Leadership in Sustainable Technology* (ILST): Lewisburg, PA, June – August 2015

* Solar window analysis and site feasibility assessment
* Business plan design and pro forma financial statements

Participant, *Keen Winter Interdisciplinary Design Experience* (KWIDE): Lewisburg, PA, January 2015

* Brainstorming and the engineering design process.
* Rapid prototyping
* Elevator pitch

Teaching Assistant,Bucknell University: Lewisburg, PA, August 2014 – December 2015

* CSCI 203: Intro to Computer Science
* ELEC 205: Electrical and Computer Engineering Fundamentals

System Administrator, *HawkEye Technologies, LLC*: Milford, CT, March 2012 – August 2014

* Assembly of infrared sources including coil winding, spot welding, and cement casting
* Stress testing units
* Data collection and metric analysis
* Datasheet design and publishing

**Projects**

Accessible Micromanipulator

* System design and construction of a cost efficient micromanipulator for use with force sensitive cell biology research
* Personal focus on design of a control system which enables automatic movement of the needle to within the microscope’s field of view
* Solutions implemented using a TI microcontroller with a custom serial library

Bucknell Events App

* Designed and developed a mobile app which will make it easier for students to discover and locate on campus events which interest them
* Personal focus on interfacing with remote resources over RSS, iCalendar, and proprietary APIs
* Solutions implemented using Python scripts

**Software Experience:**

* C, Java, Python, HTML + CSS, Javascript, SQL, MATLAB + Simulink
* MIPS Architecture and Assembly, Verilog HDL, NI Multisim (SPICE)
* Proficient in Microsoft Word, Excel, Access, PowerPoint, Publisher