**Matthew Alexander Hawkins** 90 Spruce Street

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**Education:**

* Bucknell University: Lewisburg, PA
* Bachelor of Science in Computer Engineering with a minor in Mathematics.
* Graduated: May 21, 2017
* GPA: 3.49 Cumulative / 3.70 Engineering

**Work and Internship Experience:**

Software Development Engineer, Amazon: Seattle, WA, August 2017 – Present

* Devices team

Database Administrator, Lockheed Martin (Sikorsky Aircraft): Stratford, CT, June 2016 – January 2017

* 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 and elevator pitches

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

* Design and construction of a cost efficient micromanipulator for use with force sensitive cell research
* Personal focus on design of a control system that enables the needle to be operated with a USB joystick.
* Added quality of life features, such as the ability to automatically move the needle to within the microscope’s field of view
* Solutions implemented using an Arduino Due 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, C++, Java, Python, HTML + CSS, Javascript, SQL, MATLAB + Simulink
* MIPS Architecture and Assembly, Verilog HDL, NI Multisim (SPICE)