Matthew Alexander Hawkins

matthew.alexander.hawkins@gmail.com
m-hawkins.github.io

90 Spruce Street
Stratford, CT 06615
(203) 767-7816

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)