Matthew Alexander Hawkins

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Education:

- Bucknell University: Lewisburg, PA
- Bachelor of Science in Computer Engineering with a minor in Mathematics.
- Expected graduation date: May 2017
- GPA: 3.38 Cumulative / 3.62 Engineering

Work and Project Experience:

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

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

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

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

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

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

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

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

Database Administrator, Sikorsky Aircraft Corporation: 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

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

Projects

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

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