JACOB KINGERY

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EDUCATION

Franklin W. Olin College of Engineering - Needham, MA *May 2016*
Candidate for Bachelor of Science in Electrical and Computer Engineering
Recipient of 4-year, 50% tuition Olin Merit Scholarship
Current GPA: 3.73

Courses: Signals and Systems*, Intro to Microelectronic Circuits (with lab)*, User-Oriented Collaborative Design*, Intro to the Language of Music*, Principles of Engineering, Software Design, Bayesian Inference and Reasoning, Intro to Materials Science (with lab), Linearity I & II, Physics: Waves, Real World Measurements, The Entrepreneurial Initiative, Modeling and Simulation of the Physical World, Modeling and Control, Design Nature, The Wired Ensemble **currently enrolled*

Greene County High School - Jefferson, IA *May 2012*
GPA: 4.0, Valedictorian, National Merit Finalist, AP Scholar with Honor

EXPERIENCE

MHF Engineering Summer 2013
Intern *Jefferson, IA*

- Used AutoCAD Civil 3D to draft survey plats, do preliminary work for future projects (importing aerial photos, placing viewpoints along the project area, locating and showing utilities, marking features, etc.), transfer design details from paper to computer, and create exhibits to show proposals
- Assisted during land surveys by taking shots with GPS equipment, running the rod with the total station, marking elevations on benchmarks, and locating lot pins
- Helped around the office by compiling a nearly-200-page specifications packet, filing away plans for completed projects, and taking pictures of project areas to aid in the design process

Course Projects

- Principles of Engineering: In a group of four, designed and built a mechatronic self-playing glass harp that accepts the user's input through a web app and plays it on eight wine glasses; check it out at www.ghostfiddle.weebly.com
- Software Design: In a group of four, wrote a program suite that used various methods to convert images and video into arrays of ASCII characters
- Real World Measurements: In a group of five, created an acoustic touchscreen using an Arduino and four dynamic strain gauges
- The Entrepreneurial Initiative: In a group of three, took the concept of pressure-sensing shoe inserts for use in athletic training through the design process from a startup perspective

LEADERSHIP AND ACTIVITIES

Music

- Co-navigator of the Olin Conductorless Orchestra
- Co-leader of the CheeriOs (Olin's non-auditioned a cappella group)

Co-curricular

- Puzzling and Trivial Phenomena

  Participated in, and completed, the Microsoft College Puzzle Challenge 2013 on a team of four

SKILLS

Computer Python, JavaScript, jQuery, Node.js, Arduino C, LaTeX, MATLAB, LTspice
AutoCAD, SolidWorks, OpenSCAD