

Education

Johns Hopkins University

Bachelor of Science in Electrical Engineering
Bachelor of Science in Computer Engineering
Major GPA: 3.52/4.0

Baltimore, MD
Expected May 2018
Expected May 2018

South Side High School

Regents Diploma with Advanced Designation, GPA: 101.4/100
International Baccalaureate Diploma, 41/45 points
International Baccalaureate Extra Certificate, Physics Higher Level

Rockville Centre, NY
May 2014
May 2014
May 2014

Technical Skills

Electrical Engineering: EAGLE, prototyping, circuit analysis, TTL, sensor calibration, soldering, Arduino
Computer Languages: Java, Python, C, C++, Assembly, Perl, Javascript
Operating Systems: Mac OS, Windows 7, 8, 10, Linux (including virtual machines)
APIs: XLSForm, Textit, Android API
Currently learning: power electronics, signal processing, MATLAB

Work Experience

Biomedical Engineering Design Team

Engineer

Baltimore, MD
Oct. 2015 - present

- Evaluated microcontroller options for handheld low-cost tocodynamometer and identified ideal candidate
- Analyzing output of uterine contraction detection algorithm to improve accuracy
- Proposed idea that decreasing sensor resolution could improve time and memory efficiency while increasing accuracy, currently testing this approach

Fusiform Orthotics

Engineer, Researcher

Baltimore, MD
May 2015 - present

- Designed portable data collection platform to record forces experienced by lower limb orthotic devices
- Constructed platform for use in IRB study
- Learning to program CNC milling machines for production of modular orthotics

Bloomberg School of Public Health

Information Technology Assistant

Baltimore, MD
Mar. 2015 - present

- Use APIs to build survey tools for Android devices
- Develop code to maintain and support data collection and database servers
- Resolve technology and hardware issues for medical researchers and administrative staff

Memorial Sloan-Kettering Cancer Center

Student Intern

New York, NY
June - Sept. 2012 & 2013

- Performed graduate-level bioinformatics research full time over two summers
- Developed and applied computer scripts to apply statistical data analyses, searching for associations between genetic variations and cancer
- First exposure to computer science, learned scripting and general computer science techniques
- Recognized as Siemens National Semifinalist in 2012 for research

Leadership Experience

GetEdgeucated/SSHSTutoring.com

Cofounder and Head Tutor

Rockville Centre, NY
Oct. 2013 - Sept. 2014

- Collaborated with 3 other founders to develop website organization and design
- Contributed to implementing website function and features including live chat, photo sharing and drawing capabilities
- Conducted interviews for prospective tutors, expanding to 22 tutors to meet demand
- Organized and advertised fundraising events to cover operating expenses