

## Education

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### 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

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Electrical Engineering: EAGLE, circuit analysis, TTL, sensor calibration, soldering, rapid prototyping  
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

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### 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

### JHU Rotobics Club

*Lead Electrical Engineer*

Baltimore, MD  
Aug. 2015 - present

- Added hardware PWM capabilities to Raspberry Pi for auto-targeting ball launcher project
- Supporting construction of optical shaft encoder for increased aiming accuracy
- Designing autonomous maze-solving micromouse with optimal speed, weight and footprint
- Participating in outreach program introducing disadvantaged Baltimore high schoolers to computer science and robotics with Arduino

### Fusiform Medical Devices

*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 and calibrated sensors to output real force values
- Learning to program CNC milling machines for production of modular orthotics
- Team selected to receive support from Accelerate Baltimore and the Social Innovation Lab

### 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