# Zachary Marcus

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## EDUCATION

### NORTHEASTERN UNIVERSITY
BS in Computer Engineering and Computer Science
Expected May 2019 | Boston, MA
College of Engineering
Dean's List (All Semesters)
GPA: 3.96 / 4.0

## LINKS

Github:// **ZachMarcus**
LinkedIn:// **zacharyjmarcus**

## HONORS / AWARDS

National Merit Scholar Award
MakeBU 2015 Hackathon Winner
CleanWeb Hackathon Crowd Favorite
Pavlok Shockathon 3rd place contestant

## COURSEWORK

Engineering Computation
Fundamentals of Computer Science I & II
Embedded Design
Physics II: Electricity and Magnetism
Object Oriented Design
Logic and Computation
Fundamentals of Algorithms
Circuits and Signals

## SKILLS

### PROGRAMMING
Android • Web
C • C++ • OpenCL • Bash • Matlab
HTML • CSS • JavaScript

### LANGUAGE
Professional Proficiency in Spanish •
Public Speaking • Leadership

## EXPERIENCE

### NORTHEASTERN UNIVERSITY COMPUTER ARCHITECTURE RESEARCH LAB | Undergraduate Research Assistant
May 2015 - Present | Boston, MA
- Developing Android application for easy GPU benchmarking
- Developing Android application and executables for side channel analysis of mobile device GPUs

### ENERDYNE POWER SYSTEMS | Engineering Intern
May 2013 – Aug 2013; May 2014 - Aug 2014 | Charlotte, NC
- Trained 12 landfill managers in Excel functionality to assist in monthly reports
- Generated database of thousands of methane gas well readings spanning two decades
- Created diagrams and other visuals for use in project proposals and documentation

### ADVANCED ONE DEVELOPMENT | Construction Worker
Jun 2013 – Aug 2013 | Charlotte, NC
- Executed pipeline plan in active landfills
- Operated advanced pipe-fusing machinery

## VOLUNTEER EXPERIENCE

### GENERATION CITIZEN | Democracy Coach
Sep 2014 – Present | Boston, MA
- Communicate with community partners and local figures to determine solutions to community problems
- Guided learning impaired class in affecting a bill concerning the legal age to purchase tobacco
- Guided middle school class in a project of their own design to fight gang violence in Dorchester

### CITIZEN TEACHING | Robotics Instructor
Oct 2014 - Dec 2014 | Boston, MA
- Guided middle school class in use of engineering though and writing basic code for their designs

### INTERACT CLUB | Interclub Council Representative / Secretary
Aug 2013 - Jun 2014 | Charlotte, NC
- Coordinated partnership with local nonprofit
- Raised thousands of dollars for battered women's shelter in Peru

## ACTIVITIES & SOCIETIES

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|---|---|
| Major-related: | NUMakes, Citizen Teaching, NU Hacks, IEEE, Wireless Club (Ham Radio) |
| Northeastern-Related: | Generation Citizen, Civic Engagement Program, Northeastern University Honors Program |