

# Zachary Marcus

zachary.j.marcus@gmail.com | 704.763.5707 | 480 Rear Parker St, Boston, MA 02115  
<http://zacharymarcus.xyz>

## 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

## SKILLS

### **PROGRAMMING**

Android • Web

C • C++ • Java • OpenCL • Bash

HTML • CSS • JavaScript

### **LANGUAGE**

Working Proficiency in Spanish • Public  
Speaking • Leadership

## COURSEWORK

GPU Computing

Object Oriented Design

Fundamentals of Algorithms

Embedded Design: Enabling Robotics

Logic and Computation

Fundamentals of Computer Science I & II

Circuits and Signals

Physics II: Electricity and Magnetism

## HONORS / AWARDS

National Merit Scholar Award

MakeBU 2015 Hackathon Winner

CleanWeb Hackathon Crowd Favorite

Pavlok Shockathon 3rd place contestant

## LINKS

Github:// [ZachMarcus](#)

LinkedIn:// [zacharyjmarcus](#)

## EXPERIENCE

### **NORTHEASTERN UNIVERSITY COMPUTER ARCHITECTURE** **RESEARCH LAB** | UNDERGRADUATE RESEARCH ASSISTANT

May 2015 - Present | Boston, MA

- Expanding Android application for simplified GPU benchmarking, porting a benchmark suite designed for heterogeneous computing infrastructures
- 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

- Modified database of methane gas well readings spanning two decades
- Trained 12 landfill managers in Excel functionality to assist in monthly reports
- 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 / COHORT LEADER

Sep 2014 - Present | Boston, MA

- Advise on how to best deliver an action civics education to students
- 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 thought 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

### **Major-related:**

NUMakes, Citizen Teaching, NU Hacks,  
IEEE, Wireless Club (Ham Radio)

### **Northeastern-Related:**

Generation Citizen, Civic Engagement Program,  
Northeastern University Honors Program