

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**

COURSEWORK

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

HONORS / AWARDS

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

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, porting Rodinia, 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

- 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 / COHORT LEADER

Sep 2014 - Present | Boston, MA

- Advise fellow Generation Citizen members in how to best deliver an action civics education to their 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