

Zachary Marcus

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Education

Northeastern University

Boston, MA

Candidate for Combined Bachelor of Science in Computer Engineering and Computer Science

May 2019

Minor: Entrepreneurship

- Honors/Awards: Dean's List, National Merit Scholar Award, MakeBU 2015 Hackathon Winner, CleanWeb Hackathon 2015 Crowd Favorite, Pavlok Shockathon 3rd place contestant
- Activities: Generation Citizen, NUMakes, Citizen Teaching, NU Hacks, Institute of Electrical and Electronics Engineers, Wireless Club (Ham Radio), Civic Engagement Program (CEP), NU Honors Program
- Relevant Coursework: Engineering Computation, Fundamentals of Computer Science I and II, Physics II: Electricity and Magnetism, Embedded Design
- GPA: 3.96

South Mecklenburg Language Academy

Charlotte, NC

High School Diploma

June 2014

- Achievements: Honor Roll (2010-2014), CMS Scholar, Top Senior Award, National AP Scholar
- Activities: Varsity Tennis (2011-2014); Interact Club (2012-2014)

Experience

Northeastern University Computer Architecture Research Lab

Boston, MA

Undergraduate Research Assistant

May 2015 – Present

- Developing Android application for easy benchmarking of GPUs
- Developing Android application and executables for side channel analysis of mobile device GPUs

Enerdyne Power Systems

Charlotte, NC

Engineering Intern

May 2013 – August 2013; May 2014 – August 2014

- 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 visuals for use in project proposals and project documentation

Advanced One Development

Charlotte, NC

Construction Worker

June 2013 – August 2013

- Executed pipeline plan in active landfill
- Operated advanced pipe-fusing machinery

Skills

Computer: Linux, Windows; Android development, Web development; C, C++, HTML, XML, CSS, JavaScript, OpenCL, Bash, Matlab; Simulink, Solidworks, Microsoft Office; public speaking, leadership

Language: Professionally proficient in Spanish

Volunteer Experience

Generation Citizen

Boston, MA

Democracy Coach

September 2014 – Present

- Communicate with community partners and local figure to determine solutions to community problems
- Guided mentally handicapped 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

Boston, MA

Robotics Instructor

October 2014 – December 2014

- Guided middle school class in the use of engineering thought and writing basic code for their designs

Interact Club

Charlotte, NC

Interclub Council Representative/ Secretary

August 2013 – June 2014

- Coordinated partnership with local nonprofit
- Raised thousands of dollars for battered women's shelter in Peru