

Alexander L. Marcus

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EDUCATION:

Binghamton University, State University of New York – Watson School of Engineering

May 2016

Bachelors of Science in Mechanical Engineering

Dean's List: Fall 2012 – Fall 2014

Binghamton University, State University of New York – Graduate School of Computer Science

Masters of Science in Computer Science

Expected May 2018

EXPERIENCE:

AMA Consulting Engineers

New York, NY

Mechanical Intern

May 2015–August 2015

- Drafted designs with a team of mechanical, electrical and plumbing engineers for heating, ventilation and air conditioning systems in New York City and Miami using AutoCad 2015
- Performed load calculations on various buildings to evaluate the cooling and heating required using TRACE 500
- Visited multiple job sites in order to survey, maintain or install complex cooling and heating systems
- Worked on buildings from studio high-rise apartments to the new Sony Corporate headquarters
- Aided in the design of systems using the environmentally friendly LEED restrictions

SkyBox Play

Lynbrook, NY

Back End Developer

June 2015–August 2015

- Worked for a fantasy sports internet start-up company
- Developed algorithms to evaluate player performance and put money values on specific players using Java
- Tested the algorithms against established player rankings with experienced computer scientists

The Express Deals Market

Lynbrook, NY

Co-Founder

June 2014–August 2015

- Started an online drop-shipping company
- Created a financial spreadsheet to keep track of orders, revenue, profits and various other sales metrics
- Fulfilled the online orders for each customer and resolved buyer disputes

Highland Associates

New York, NY

Mechanical Intern

August 2011, August 2013 & Summer 2014

- Worked at an engineering firm in the Mechanical Engineering Department
- Helped draft and revise HVAC technical drawings
- Visited job sites to inspect equipment and survey new areas where HVAC ducts could be reused and installed

PROJECTS:

Spindle-Drill Controller (Watson Capstone Project)

August 2015–May 2016

- Collaborate with a team of students to get an old drill used for PCBs in operating condition for use in a children's museum

Fixing the Gap

Spring 2015

- Designed a system that would eliminate the gap between the train door and the station platform

Machine Code Simulator

Fall 2014

- Worked with a team to develop a simulator that compiles and runs machine code using Java

Airplane Landing Gear

Fall 2014

- Designed and tested an airplane landing gear system to ensure it would not fail under a desired load

Python Graphing Program

Fall 2013

- Developed a program that graphs multiple functions on various intervals using Python's Turtle interface

EXTRA-CURRICULAR ACTIVITIES:

Hack BU

Binghamton, NY

Webpage Design and Coding Club

Spring 2013-Spring 2014

- Learned how to use HTML and CSS to create aesthetically pleasing and fully functional websites

AWARDS AND HONORS:

-Tau Beta Pi National Engineering Honor Society

-Phi Eta Sigma Freshman Honor Society

-Pi Tau Sigma National Mechanical Engineering Honor Society

-BU Scholarship of Excellence

-Binghamton University President's Scholar

-Buick Achievers Scholarship

SKILLS:

- Proficient in Microsoft Office, Mac OS X, Linux, Windows, AutoCAD and TRACE 500
- Can write complex programs in Java, C, Python, Matlab and Mathematica
- Knowledge of X86 Assembler, HTML5, CSS, JUnit Tests and JavaScript