

ETHAN LIU

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Home Address

61-40 163rd Street
New York, NY 11365

School Address

6 Buswell Street, Apt 12
Boston, MA 02215

EDUCATION

Boston University College of Engineering

Bachelor of Science, Mechanical Engineering, Concentration in Energy Technologies

- GPA - 3.57 Cum Laude

MAY 2015

Boston, MA

SKILLS

- Mechanical Equipment: Knowledge of 3D-print processes and CAD/CAM
- Computer Skills: Solidworks, MATLAB, C, MS Word, MS Excel
- Language Skills: Conversational Mandarin

RESEARCH & PROJECTS

- Research with Professor Dan Cole: Simulations of Electron Trajectory **SEPT 2013- MAY 2015**
 - Investigating controlled electron orbits by using programmed simulations in C
 - Debugging and modifying programmed code to incorporate various levels of orbit
 - Analyzing simulated data to search for trends and relationships between orbit conditions
- Senior Capstone Design Experience **JAN 2015-MAY 2015**
 - Designed a system that generated power from stagnant air layers within a room
 - Separated hot and cold air in order to drive a thermoelectric generator (Peltier Cell)
 - Constructed a testing chamber that modeled the customer's living environment
 - Prototyped and tested the system by measuring temperature and power generated from the Peltier Cell
- Instrumentation Theory Class: Design Project **MAY 2014**
 - Modeled the characteristics and response of an oscillating mass on a spring
 - Designed measurement apparatus using an ultrasound sensor to collect relevant data
 - Utilized a data acquisitions board to read the sensor's voltage into a computer software (MATLAB)
 - Manipulated ultrasound data in order to precisely determine frequency of oscillating mass

WORK EXPERIENCES

Massey Knakal Realty Services

Accounting Intern

JUNE 2014 – AUGUST 2014

New York, NY

- Collaborated with fellow accountants to complete end of quarter budget reports
- Organized, documented, and updated current and previous year invoices and checks
- Consolidated and organized company-wide payroll documents
- Cross-referenced multi-year transaction and accounting files for outside storage
- Created new file tracking system for headquarters

MS Cooling Equipment Inc.

Intern - Mechanic Assistant

JUNE 2013 – AUGUST 2013

New York, NY

- Installed and maintained commercial cooling equipment and refrigerators with contractor
- Contacted suppliers to make orders and rentals for necessary equipment for different worksites
- Familiarized self with basic air circulation process and main components of an air conditioning unit

LICENSES AND CERTIFICATIONS

Fundamentals of Engineering (FE) : Mechanical (NY state)

JULY 2015