

# Amy Lo

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## Purpose:

To obtain an entry level engineering position that utilizes my strong teamwork and analytical skills.

## Education:

### **Lehigh University**

Bachelor of Science in Bioengineering, Minor in Business, May 2014

Honors: Phi Sigma Pi Honors Fraternity (2011-Present), Phi Eta Sigma National Honor Society (2011-Present), M E & G W Patterson Scholarship (2011-2013), Donald & Dorothy Stabler Scholarship (2011-2012)

Relevant Courses: Biomechanics, Mechanics of Materials, Fundamentals of Engineering Mechanics, Bioengineering Physiology, Inorganic Biomaterials, Current Good Manufacturing Practices (cGMPs) and Regulatory Affairs, Graphics for Engineering Design, Principles of Economics, Information Analysis and Financial Decision Making, and Marketing

### **Integrated Product Development, Lehigh University**

January 2013-December 2013

- Developed a working prototype for a third party medical device company
- Created financial situational models and analyzed projected earnings and expenses for the first five years
- Completed comprehensive patent and literature searches, concept generation, screening, and selection procedures

### **Mechanics of Materials Bridge Project, Lehigh University**

Spring 2013

- Designed a bridge using AutoDesk Simulation software to meet specific loading and displacement requirements

### **Biostructural Mechanics Lab, Lehigh University**

Fall 2012

- Used light and fluorescence microscopy, immortalized cell lines, and various biocompatibility assays

### **Undergraduate Research Assistant, Lehigh University**

Summer 2012

“Cell adhesion of Human Lung Endothelial cells on a micro-rippled PDMS surface”

- Practiced sterile cell sub-culturing techniques and assisted with data analysis

### **Chitosan Scaffold Research Project, Lehigh University**

December 2011

- Researched a chitosan scaffold as a cartilage replacement within various joints of the human body

## Work Experience:

### **Biomedical Modeling Inc. – Engineering Intern, Brighton, MA**

Summer 2013

- Worked on a MATLAB program that performed a CT reconstruction on a rotational angiogram
- Segmented medical images of a patient’s mandible and maxilla to create a 3D printed medical model for implant surgery
- Casted prototypes for a spina bifida surgical training model

### **3D Printsmith LLC – Intern, Brighton, MA**

Summer 2013

- Operated Objet30 Pro Desktop 3D Printer
- Efficiently performed post-processing procedures for 3D printed parts
- Created marketing plan to expand target markets

### **3D Diagnostix – Intern, Brighton, MA**

July 2013

- Performed 3D laser scans on dental casts for dental surgery planning
- Performed quality control on outsourced dental drill guides

## Certifications:

**FDA Certification:** FDA’s Center for Devices and Radiological Health (CDRH) Medical Device Regulatory Requirements

## Skills:

**Programming:** MATLAB, C++; **Software:** Microsoft Office Suite, AutoDesk Simulation, Solidworks, NX I-DEAS, NX, Mimics, Geomagic Studio, SpaceClaim Engineer; **Machining:** CNC **Operating Systems:** Windows, Mac OS

**Language:** English, Chinese

## Leadership:

### **Asian Cultural Society - Secretary**

September 2012 -Present

- The primary liaison between the executive board and one of the largest multicultural organizations on campus

- Managed logistics of campus wide events