




# ISABEL YANG

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## SKILLS

*Programming* | JAVA, MATLAB  
*Material Characterization* | SEM/EDS,  
Grain Size Measurements, Optical  
Microscopy, Rockwell/Vickers Hardness,  
X-Ray Fluorescence, X-Ray Diffraction  
*Adobe Creative Cloud* | InDesign,  
Illustrator, Photoshop, Lightroom  
*Microsoft Office* | Word, Excel,  
PowerPoint, Access

## INTERESTS

coffee drinking, scenic hikes, graphic  
design, photography, fiction novels, the  
*Atlantic*, European travel, Japanese  
food, product design, comedy television,  
3D printing, music appreciation

## EDUCATION

University of California, Berkeley | Berkeley, CA August 2013 - Present  
*Regents' and Chancellor's Scholar*  
B.S., Materials Science and Engineering (Graduation: May 2017)  
Minor, Electrical Engineering and Computer Science  
Completed Coursework:  
*MSE* | Introduction to Materials Science. Crystallography. Materials Characterization.  
*EECS* | Circuits. Signals and Systems. Data Structures.

## CORPORATE EXPERIENCE

Apple Inc. | Cupertino, CA May 2015 - August 2015  
*Product Design Intern*

- Characterized cosmetic and mechanical properties of aluminum alloys
- Conducted failure analysis of cosmetic and mechanical defects observed on internal and external metal components for iPhone, Mac products, and Apple Watch
- Compared component performance variations between vendors and manufacturing processes

Sandia National Laboratories | Livermore, CA May 2014 - August 2014  
*Metallurgical Undergraduate Intern*

- Studied the process-optimization of Gas Tungsten Arc welding on 2219 Aluminum in order to create a material suitable to replace stainless steel in hydrogen storage applications
- Analyzed the effects of various heat treatments on the 316L alloy of stainless steel forgings through ASTM grain size calculations and Rockwell hardness testing
- Characterized aging tempers on bismuth telluride thermoelectric material

Lockheed Martin | Sunnyvale, CA June 2012 - August 2012  
*Technical Intern, Product Quality Assurance*

- Planned department switch to a new database system, SAP
- Worked with software and test engineers to develop new ways to make implementation faster
- Inspected various clean rooms and electro-static discharge laboratories

## RESEARCH EXPERIENCE

Medical Polymers Group | Berkeley, CA August 2014 - Present  
*Undergraduate Researcher*

- Failure analysis of retrieved shoulder implants from the University of California San Francisco (Materials: Cobalt Chrome, Polyethylene)
- Developed scoring method for severity of different damage modes on cobalt chrome glenospheres

## PROJECTS

CITRIS Mobile App Challenge | Berkeley, CA January 2014 - May 2014  
*Flare, App Developer*

- Worked with a team to create a mobile application made for natural disaster response
- App allows users to "ping" their location to emergency response teams during a disaster, as well as reference a manual for instructions

## EXTRACURRICULARS

Dept. of Materials Science & Engineering | Berkeley, CA August 2015 - Present  
*Reader for E45: Introduction to Materials Science*

Society of Women Engineers | Berkeley, CA August 2013 - Present  
*Treasurer*

Blue&Gold Yearbook | Berkeley, CA August 2013 - Present  
*Design Editor*