

# Rachel Reed

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## Education

### Stanford University

Candidate for Masters in Mechanical Engineering

June 2019  
Starting Fall 2017

### Massachusetts Institute of Technology

B.S. in Mechanical Engineering, Minor in International Studies  
Spanish Exchange Student-Instituto Internacional

June 2016  
Major GPA: 4.8/5.0

## Experience

### Product Engineering Process | Lecturer

Assisting in the production of a hands-on educational experience in creating products for 150 students for an iconic MIT mechanical engineering capstone class

Help create and maintain a graphic identity for the class while fostering creativity and innovation in students

Fall 2016

### Ford Motor Company | Powertrain Installation Cooling Intern

Helped design a volume calculator used for determining Degas bottle sizing

Created a method for testing and analyzing hose compliance, finding a large discrepancy in actual and believed hose expansion

Summer 2015

### MIT Lienhard Lab | Undergraduate Researcher

Used CFD to analyze natural convection flows to increase oxygen in fish farming ponds in underdeveloped regions

Build models to validate analytical results

Jan 2015-May 2016

### Harvard Microrobotics Lab | Research Assistant

Designed and fabricated an air disturbance generator for Robobee robustness experiments to simulate varying gusts of wind

Summer 2013

### Cameron Engineering | Mechanical Engineering Intern

Performed research on sensors to be implemented in a mechanical heart

Spring 2012

## Skills

Solidworks/CAD  
CNC Machining  
Injection Molding  
Thermoforming  
Laser cutter  
3D printer  
Matlab  
Arduino  
Adobe Creative Suites  
Microsoft Office

## Awards

LINC Conference Panelist (May 2016)  
ESG Excellence in Teaching Award (May 2016)  
MIT Korea Program Speaker (April 2016)  
MISTI Winter Photography Contest (January 2016)  
4th Place in International Design Competition & Most Creative Design (July 2015)  
Office of Minority Education Distinguished Peer of the Month (November 2014)  
Lime Connect Fellowship (August 2014)  
GECD Winter Photography Contest (February 2014)  
Li & Fung Scholarship to Study Abroad in Madrid (January 2014)  
Outstanding Contributions to ESG (May 2013)