

# MANNY FACTURE

Cell: 412.111.2222 Email: mfacture@andrew.cmu.edu

LinkedIn: [www.linkedin.com/in/mfacture](http://www.linkedin.com/in/mfacture)

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## EDUCATION

### Carnegie Mellon University

Bachelor of Science in Mechanical Engineering  
Double Major in Biomedical Engineering  
Overall GPA: 3.0/4.0

Pittsburgh, PA  
May 2016

## RELEVANT EXPERIENCE

### Procter & Gamble Manufacturing Company, Engineering Intern, Lima, OH

Summer 2015

- Conducted line trials to determine plant capability and made recommendations for noise mitigation
- Implemented a daily management system for managing scrap in order to reduce weekly accumulation
- Commended by supervisor for completing projects 3 weeks ahead of schedule

## PROJECTS

### Suitcase with Vacuum Pump, Design II

Spring 2016

- Developed and built a suitcase with a vacuum pump that removed excess air to increase packing capacity by up to 50%, allowing travelers to bring more personal items per trip

### Temperature Controlled Shipping Unit

Spring 2015

- Designed and analyzed with FEA a shipping container that can bring a biospecimen container to 4°C within 10 minutes
- Devised the system such that it is functional in 60°C ambient temperature

### Swinging Gripper, Design I

Fall 2014

- Led a team of five people to create a robotic gripper that used a small motor torque to hold onto a billiards ball through one full swinging motion
- Constructed a 3D representation of the gripper in SolidWorks and ran stress simulation on the model

### Astronaut's Coat Rack, Design I

Fall 2014

- Designed a coat rack with mass and support constraints to sustain a load in space
- Created a design that could carry three times the required load with an acrylic structure that weighs less than 10 grams.

### Head Mechanic and Buggy Chairperson, Pi Kappa Alpha Fraternity

2014-present

- Customized and built a gravity racer, out of composite materials, for annual University racing competition
- Decreased race time by more than 5 seconds with design of new steering

## RELEVANT COURSES

Manufacturing Sciences  
Cellular Mechanics

Mechanical Systems Experimentation  
Engineering Statistics and Quality Control

Fuel Cell Systems  
Engineering Graphics

## LEADERSHIP

### Vice-President, Tau Beta Pi (National Engineering Honor Society), Spring 2014-present (Member since Fall 2013)

- Plan several outreach and educational events in the Pittsburgh area to bring awareness to the importance of STEM

## ADDITIONAL EXPERIENCE

### Carnegie Mellon University, Desk Attendant, Pittsburgh, PA

Fall 2013-Spring 2014

- Checked students' identification to ensure the safety of the residence hall students

## SKILLS

**Software:** Microsoft Office, MATLAB, Solidworks, Creo Pro/E, Autodesk Inventor, ANSYS, ADAMS

**Machines:** Mill, Lathes, Drill Press, Band Saw

**Spoken Languages:** Fluent in French; Conversant in Spanish

## ACTIVITIES & HONORS

Pi Kappa Alpha Fraternity

2013-present

American Society of Mechanical Engineers (ASME)

2012-present

College of Engineering Dean's List (GPA 3.75 and above)

Fall 2013-present