MANNY FACTURE

Permanent: 3521 Second Avenue, Westford, MA 01881

Current: SMC 123, 5032 Forbes Avenue, Pittsburgh, PA 15289 Cell: 412.111.2222 Email: mfacture@andrew.cmu.edu LinkedIn: www.linkedin.com/in/mfacture

EDUCATION

Carnegie Mellon University Pittsburgh, PA

Bachelor of Science in Mechanical Engineering, May 2016

Double Major in Biomedical Engineering

Overall GPA: 3.0/4.0

University of Madrid Madrid, Spain

Semester Abroad, Spring 2015

RELEVANT EXPERIENCE Procter & Gamble Manufacturing Company Lima, OH

Engineering Intern, 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 5 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
- Succeeded in creating 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
- Created and manufactured all steering, braking and mounting components
- Decreased race time by more than 5 seconds with design of new steering

RELEVANT COURSES Manufacturing Sciences Mechanical Systems Experimentation Microfluidics

Computer-Aided Design Engineering Statistics and Quality Control Engineering Graphics
Computer-Aided Engineering Cellular Biomechanics Fuel Cell Systems

LEADERSHIP

Vice-President, Tau Beta Pi (National Engineering Honor Society), Spring 2014 – present

- Plan outreach events in the Pittsburgh area to bring awareness to the importance of STEM
- Motivate the 60 members to attend meetings and organize events

ADDITIONAL EXPERIENCE

Carnegie Mellon University Pittsburgh, PA

Desk Attendant, 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

Men's Track and Field Team, Carnegie Mellon, 2012 – present

American Society of Mechanical Engineers (ASME), 2012 – present

College of Engineering Dean's List (GPA 3.75 and above), Fall 2013, Spring 2014