

MANNY FACTURE

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EDUCATION

Carnegie Mellon University Pittsburgh, PA

Bachelor of Science in Mechanical Engineering, May 20XX

Double Major in Biomedical Engineering

Overall GPA: 3.0/4.0

RELEVANT EXPERIENCE

Procter & Gamble Manufacturing Company, Engineering Intern, Lima, OH Summer 20XX

- 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, Fall 20XX

- 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 20XX

- 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 20XX

- 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 20XX

- 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, 20XX-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

Mechanical Systems Experimentation

Fuel Cell Systems

Cellular Mechanics

Engineering Statistics and Quality Control

Engineering Graphics

LEADERSHIP

Vice-President, Tau Beta Pi (National Engineering Honor Society), Spring 20XX-present (Member since Fall 20XX)

- 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 20XX-Spring 20XX

- 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, 20XX-present

Men's Track and Field Team, Carnegie Mellon, 20XX-present

American Society of Mechanical Engineers (ASME), 20XX-present