

MENGYING “CATHY” FANG

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EDUCATION

Carnegie Mellon University | Pittsburgh, PA
B.S. in Mechanical Engineering | May 2020
Minor in Human-Computer Interaction and Physical Computing
GPA: 3.63/4.0

RELEVANT EXPERIENCE

Shanghai Tangdi Information Technology Co., Ltd
Structure Intern of Mobile Robots Team | Shanghai, China | June 2017

- Designed robot parts in SolidWorks and constructed engineering graphs.
- Researched and analyzed mobile robots in the global and national market.

PROJECTS | RESEARCH

Textural Gradient Rendering Device Design | Fall 2017

- Research and design a 2-DOF haptic rendering device based on an audio loudspeaker.

Efficient Cooking System Design, Engineer Without Borders | Spring 2017 - present

- Research and analyze alternative energy resources for better cooking system in Nyadire, Zimbabwe.
- Organize engineering outreach project at Avonworth middle school.

Face Tune, Hack I I2 Top 10 Project | Spring 2017

- Created a game that uses face recognition to compose music.

P.O.N.D., I5-I I2 Term Project | Spring 2017

- Created an interactive platform that allows users to animate objects from paintings.

Mousetrap Car, Intro to Mechanical Engineering | Fall 2016

- Designed and built a mousetrap-powered car that runs 17 ft in 8 sec forward and back. Third place in section.

ADDITIONAL EXPERIENCE

Teaching Assistant, Carnegie Mellon University | Fall 2017
TA of I5-I I2 Fundamentals of Programming and Computer Science and
Physics I for Engineering Students

LEADERSHIP

President, Design for America @ CMU | Spring 2017 - present

- Oversee student-led teams that work closely with local community organizations to identify challenging social issues.
- Organize IMPACT CMU, a social-good expo that showcases student involvement in initiating social changes.

Sophomore representative, Student Advisory Council | Fall 2017

- Conduct Townhall meetings to improve mechanical engineering curriculum and the mechanical engineering department.

First-year Representative, Partners Allied in Civic Engagement | Fall 2016-Spring 2017

- Promoted civic engagement opportunities programming to the first-year class.

SKILLS

Software
SolidWorks
Adobe CC

Programming
Python
Arduino
HTML/CSS

Hands-on
Laser Cutter
Soldering
Lathe
Mill

Languages
Mandarin
English

ACTIVITIES

American Society of
Mechanical Engineers
Fall 2017

Society of Women
Engineers
Fall 2016-present

All University Orchestra
Fall 2016-present

Scotch'n'Soda Theatre
Group
Spring 2017

CMU Design League
Fall 2017