ZHIXIANG LIU

☎(951)801-0076 ✉ zhl136@pitt.edu Jasonliu-pitt zhixiang-liu
5620 Fifth Avenue APT#A-9◇Pittsburgh, PA, 15232 ◇University of Pittsburgh

EDUCATION

University of Pittsburgh (UPITT) **Pennsylvania, United States**
M.S. in information science Aug.2018 –present

University of California, Riverside (UCR) **California, United States**
Exchange Student in Mechanical Engineering Sep.2017 –Jun.2018
GPA: Overall 3.63/4

Nanjing University of Aeronautics and Astronautics (NUAA) **Nanjing, China**
B.S. in Engineering, specializing in College of Aerospace Engineering Sep.2014- Jun. 2018
GPA: Overall 87/100 Major 90/100

PROJECTS

Key Laboratory of Education Ministry for Modern Design and Rotor-Bearing System
RA (Part Time), Ultrasonic Signal Processing and Data Analysis Jan.2016-Jan.2017

- Proposed a new method to measure the rotational speed of bearing cage based on ultrasonic
- Programed **Matlab** codes to monitor the ultrasonic echo signal and calculated the rotational speed
- Published: **Zhixiang Liu** etc, "Study on the rotational speed of bearing cage based on ultrasonic measurement", Proceedings of the IMechE Part K, 2017, Volume: 231 issue: 4, PP: 684-689.

National student's platform for innovation and entrepreneurship training program
PI, UAV Information Interaction and Route Planning Apr.2016-Mar.2017

- Built a communication system for flight data download and saving based on 4G wireless network
- Programed path planning codes using Dijkstra algorithm based on **Matlab**

National student's platform for innovation and entrepreneurship training program
CO-PI, Heat Transfer Characteristics Analysis Apr.2017-Mar.2018

- Built the 3D model of a certain type of aero engine turbine case with a narrow slit using **UG**
- Analyzed heat transfer characteristics and temperature distribution of impinging jet using **Fluent.**

[ME153][Finite Element Method] 2-D time related Finite Element Method simulation

- Individual course project in 2017 spring at UCR
- Use **matlab** and **python** to simulate the temperature distribution in 2D plate during the given time.

AWRDS & HONORS

- First class distinguished student scholarship of NUAA **twice (10%)** Oct.2016 & Oct.2017
- First class academic scholarship of NUAA **(5%)** Mar.2017

ACTIVITIES

- TA for students in College of Aerospace Engineering in terms of Matlab for a semester

SKILLS

Programming: C/C++, Matlab, Python, Java, Html/CSS, Javascript, SQL
Modelling & Analysis: CAD, UG, Solidworks, Fluent