ZHIXIANG LIU

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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

PUBLICATION

[1] 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.

RESEARCH AND LAB EXPERIENCE

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

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

AWRDS & HONORS

- First class outstanding student scholarship of NUAA **twice (10%)** Oct.2016 & Oct.2017
- First class academic scholarship of NUAA **(5%)** Mar.2017
- Title 'Merit Student' of NUAA **(10%)** Oct.2016

ACTIVITIES

- TA for students in College of Aerospace Engineering in terms of Matlab for a semester
- Programed a database management system for hospital using C++ in NUAA
- Programed a 2-D time related Finite Element Method simulation using Matlab & python in UCR

SKILLS

Programming: C/C++ (2 year), Matlab (2 years), Python (1 years)
Modelling & Analysis: CAD, UG, Solidworks, Fluent

RESEARCH INTERESTS

- Data Processing & analysis, Information visualization, Database management
- Computer graph & Image processing, Computer Vision