

Shengbin Wang

sambin_wang@yahoo.com

(1) 832-484-0533

4800 Calhoun Rd, Houston, TX 77004

Education

University of Houston | GPA: 3.502/4

Houston, U.S.

- Ph.D. in *Mechanical Engineering*

Aug. 2018 - present

HeFei University of Technology

Hefei, China

- M.S. in *Mechanical Engineering* | GPA: 84/100

Sep. 2015 - May. 2018

- **Courses:** Mechanical system dynamics, Elastic mechanics and finite element method, Optimization method

Shandong University

Jinan, China

- B.E. in *Mechanical Manufacturing and Automation* | GPA: 82.93/100 | Major GPA: 83/100

Sep. 2013 - Jul. 2014

- **Courses:** Mechanical Design, Fluid Mechanics, Mechanical Vibration and Control

Huazhong Agricultural University

Wuhan, China

- B.E. in *Mechanical Manufacturing and Automation* | GPA: 3.15/4.0 | Major GPA: 3.23/4.0

Sep. 2011 - June. 2015

- **Courses:** Engineering Graphics, Theoretic Mechanics, Theory of Machines and Mechanisms

Research

Research assistant & Teaching assistant

Aug. 2018 - Present

Ph.D. project

- Pulp and paper mill break event classification in multivariate time series
- Self-sensing of dielectric elastomer tube actuator with machine learning

Analysis of limit speed of the circlips

Nov. 2016 - Aug. 2017

Master project

Supervisor: Prof. Chunxian Wang

- Deduced the contact state between the circlips and the shafts and verified by experiments
- Analysed the experimental results by the finite element software Abaqus

Structural optimization of circlips and theoretical calculation of limit speed

Oct. 2015 - June. 2016

Dongbo Fasteners Co. Ltd

Supervisor: Dr. Ze Wu

- Designed an experiment to measure the detaching speed of the circlips
- Deduced the theoretical formula of limit speed of circlips by referring German circlip standard DIN471

Structure design of grape sorting machine based on machine vision

Oct. 2014 - June. 2015

Undergraduate project

Supervisor: Prof. Qiaohua Wang

- Completed the sorting pipeline mechanism design and optimize the sorting mechanism.

Publication

In Chinese

June. 2017

- **Shengbin Wang**, Chunxian Wang, Zhe Wu, et al. Research of radial failure criterion and limit speed for circlips, *Mechanical Strength*, 200(06): 1412-1418, 2018.

Internship

Mercedes-Benz in Beijing, China

Aug. - Nov. 2016

- Monitored the defects of the exterior and interior car and wrote daily production reports
- Analyzed the causes of defects and proposed improvement solutions

BOSCH Thermal Technology Co. Ltd in Wuhan, China

Mar. - June. 2015

- Assisted the engineers to design and revise the boiler products by drawing software

Awards and Honors

- Brij & Sunita Agrawal Scholarship 2019
- First-class scholarship 2017
- First-class scholarship 2016
- As an exchange student to go to Shandong University in junior year-Selected 2 among 180 participants 2013

Skills

• Python • R • Matlab • Abaqus • ProE • Auto CAD • Solidworks