

Shengbin Wang

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4800 Calhoun Rd, Houston, TX 77004

Education

University of Houston

- Ph.D. in *Mechanical Engineering*

Houston, U.S.

Aug. 2018 - present

HeFei University of Technology

- M.S. in *Mechanical Engineering*

Hefei, China

Sep. 2015 - May. 2018

Shandong University

- B.E. in *Mechanical Manufacturing and Automation*

Jinan, China

Sep. 2013 - Jul. 2014

Huazhong Agricultural University

- B.E. in *Mechanical Manufacturing and Automation*

Wuhan, China

Sep. 2011 - June. 2015

Research

Research assistant & Teaching assistant

Aug. 2018 - Present

Ph.D. project

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

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

Self-Sensing of Dielectric Elastomer Tubular Actuator with Feedback Control Validation

May. 2020

- Shengbin Wang, Theophilus Kaaya, Zheng Chen. *Smart Material and Structures* 2020.

Self-sensing of Dielectric Tubular Actuator and Its Validation in Feedback Control

May. 2020

- Shengbin Wang, Theophilus Kaaya, Zheng Chen. *AIM* 2020.

Research of radial failure criterion and limit speed for circlips

June. 2017

- Shengbin Wang, Chunxian Wang, Zhe Wu, et al. *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