Shengbin Wang

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Education

University of Houston *Houston, U.S.*
· Ph.D. in *Mechanical Engineering* *Aug. 2018 - present*

HeFei University of Technology *Hefei, China*
· M.S. in *Mechanical Engineering* *Sep. 2015 - May. 2018*

Shandong University *Jinan, China*
· B.E. in *Mechanical Manufacturing and Automation* *Sep. 2013 - Jul. 2014*

Huazhong Agricultural University *Wuhan, China*
· B.E. in *Mechanical Manufacturing and Automation* *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*
· 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***