Shengbin Wang

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Education

University of Houston (Robotic Core courses GPA | 4) Houston, TX · 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 (exchange program) 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 Skills • Matlab • Abaqus • ProE • Auto CAD • Solidworks • Python • R Work Experiences Research Assistant | University of Houston Aug. 2018 - Present · Self-sensing of dielectric tubular actuator and its validation in feedback Control. · Design and fabricate a jellyfish robot, develop and implement optical control systems combining with machine learning. Analyzed the pulp and paper mill break event classification in multivariate time series with machine learning **Teaching Assistant | University of Houston** · Served as TA for MECE3360 Experimental Methods June.2020 - Present · Served as TA for INDE7397-Engineering Analytics and INDE6372-Advanced Linear Optimization Aug.2018 – May.2019 Mercedes-Benz in Beijing, China | Quality Management Intern 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 Dongbo Fasteners Co. Ltd, China | Graduate Consultant Oct.2015 - June. 2017 · Structural optimization of circlips and theoretical calculation of limit speed · 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 BOSCH Thermal Technology Co. Ltd in Wuhan, China | Product Design Intern Mar. - June. 2015 · Assisted the engineers to design and revise the boiler products by drawing software **Projects** Analysis of limit speed of the circlips Nov.2016 - Aug. 2017 · Deduced the contact state between the circlips and the shafts and verified by experiments · Analysed the experimental results by the finite element software Abaqus Structure design of grape sorting machine based on machine vision Oct. 2014 - June. 2015 · 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. Awards and Honors

> 2019 2017

2016

· Brij & Sunita Agrawal Scholarship (\$1000 with instate tuition)

· First-class scholarship

· First-class scholarship