KEVIN YU

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Portfolio: **https://kevinyusite.wordpress.com/**

Objective: Seeking internship opportunity

EDUCATION

The University of Texas at Austin	BS, Mechanical Engineering; Certificate of Computing, Computer Science	2015-2019
Relevant Courses Taken	Mechanics of Solids, Fluid Mechanics, Thermodynamics, Engineering Physics, Statics, Engineering Design & Graphics, Engineering Statics, Engineering Communication, Matrix Calculations, Software Design	

PROFESSIONAL CERTIFICATE

• Certified SOLIDWORKS Associate for Mechanical Design by Dassault Systèmes SOLIDWORKS Corp 02/2016

PUBLICATION

Sung Yul Shin, **Kevin Yu,** Bailey Phillips, Robert Lee, Ashish Deshpande, & James Sulzer. *An Individual-specific, Affordable, Robotic Gait Trainer for People with Neurological Injury*. 2nd Annual Rehabilitation Research Symposium, Mar. 3, 2017, Austin.

WORK EXPERIENCE

PneumRx, Inc/BTG Company – *Summer R&D Engineering Intern; Santa Clara, CA* 06/2017 - Present

- Worked on the Lung Volume Reduction Coil System, an implantable medical device for patients with emphysema
- Utilized LabView to analyze data from force transducers and power stepper motors for trackability tests
- Designed fixtures in SolidWorks for the trackability testers and documented trackability test method
- Assisted in developing various prototypes and bench top testing protocols
- Trained on FMEA and FDA risk analysis methods

ReWire Laboratory, University of Texas at Austin – *Lab Researcher; Austin, TX* 06/2016 - Present

- Created SolidWorks FEA simulations of flexure sensors for a device to help stroke patients regain motor control
- Utilized fatigue studies, design studies, and design tables to calibrate a sensitive flexure sensor
- Constructed a Jansen Mechanism for stroke rehabilitation and prototyped aluminum linkage designs
- Coordinated designs and manufacturing of the flexure sensor

Microbiomechanics Laboratory, University of California Irvine – *Lab Researcher;* Irvine, CA 07/2014, 06-07/2015, 01/ 2016

- Created SolidWorks animations and models of a self-diagnostic device for malaria disease, including mobile phone, ceramic swab, electric plug, and saliva cup

EXTRACURRICULAR ACTIVITIES & HONORS

- Powerlifting School Team, University of Texas at Austin 08/2016 - Present
  Trained 12 hours a week, competed and volunteered at collegiate meets
- Longhorn Racing Team, University of Texas at Austin 01/2017 - Present
  Compete in international design competition by designing, building, and racing a formula-style, single-seater race car

ADDITIONAL INFORMATION

Computer Skills: MS Word, Excel, PowerPoint, Java, Python, SolidWorks, MatLab, Basic knowledge of COMSOL
Languages: Native English; took Spanish classes;
Citizenship: United States

REFERENCE

Prof. William Tang, Dept. of Biomedical Engineering, Univ. of California Irvine, wctang@uci.edu
Sung Yul Shin, Ph.D. Candidate, Dept. of Mechanical Engineering, Univ. of Texas at Austin, syshin0228@utexas.edu
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