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, Physics, Statics, Dynamics, Heat Transfer, Materials Engineering, Software Design, Engineering Statistics, Engineering Graphics and 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

National Aeronautics & Space Administration – *Advanced Thermal Technology Intern; Houston, TX* 01/2018 – Present

- Developing benchtop model to evaluate efficiency of Phase Change Material Heat Exchanger(PCM HX) for lunar habitat
- Using Creo to develop life scale mockup of fusible heat sink on Habitable Airlock Module (HAL)

PneumRx, Inc/BTG Company – *Summer R&D Engineering Intern; Santa Clara, CA* 06/2017 – 08/2017

- Conducted research on the Lung Volume Reduction Coil System, a Class III Nitinol implantable medical device to treat patients with severe emphysema and COPD
- Utilized LabView to analyze data from force transducers and power stepper motors for trackability tests, tracking pressure of guidewires and forceps through clinically observed, worst case torturous pathways
- Designed fixtures in SolidWorks for the trackability testers using a mill and lathe and documented trackability test method
- Trained on FMEA and FDA risk analysis methods and SolidWorks PDM

ReWire Laboratory, University of Texas at Austin – *Lab Researcher; Austin, TX* 06/2016 – 12/2017

- 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

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

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

ADDITIONAL INFORMATION

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

REFERENCE

Kinman Hong, Sr. Product Development Engineer, PneumRx/BTG, kinman.hong@btgplc.com
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