

## KEVIN YU

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### ***Objective: Seeking summer internship opportunity***

#### **EDUCATION – Junior Class Standing**

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

#### **PROFESSIONAL CERTIFICATE**

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Certified (scored 100%) SOLIDWORKS Associate for Mechanical Design by Dassault Systèmes SOLIDWORKS Corp	02/2016
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#### **PUBLICATION**

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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*. 2<sup>nd</sup> Annual Rehabilitation Research Symposium, Mar. 3, 2017, Austin.

#### **WORK EXPERIENCE**

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<b>ReWire Laboratory, University of Texas at Austin – Lab Researcher; Austin, TX</b>	06/2016 - Present
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- Created simulations of flexure sensors for a rehabilitation device to help stroke patients regain fine 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
- Utilized PhaseSpace to record motion of Jansen Mechanism
- Presented results at a biomechanics convention, collaborators including UT Austin and St. David's Medical Center

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<b>Microbiomechanics Laboratory, University of California Irvine – Lab Researcher; Irvine, CA</b>	07/2014, 06-07/2015, 01/ 2016
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- Created SolidWorks simulations of a self-diagnostic device for malaria disease, including mobile phone, ceramic swab, electric plug, and saliva cup
- Conducted various computer simulation projects on metal thermal expansions, flow channels, wind tunnels, and electrical busbars using SolidWorks and COMSOL Multiphysics; tested thermal processes, metal properties, mesh geometry, and fluid variables
- Actively engaged discussions with professors and team members; worked over 350 hours during summer and winter breaks

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<b>Mobius at Your Service LLC, Austin, TX – Founder and Owner, Austin, TX</b>	08/2015 - Present
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- Manage a rental property including finance and maintenance, gained management skills

#### **EXTRACURRICULAR ACTIVITIES & HONORS**

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| • Exceptional Award, ME Graduate Recruitment Poster, “An Individual-specific, Affordable, Robotic Gait Trainer for People with Neurological Injury”, Sung Yul Shin, <b>Kevin Yu</b> , et al. | 07/2017           |
| • National Society of Collegiate Scholars Award                                                                                                                                              | 03/2016           |
| • 1 <sup>st</sup> Award in Teen Group, American Powerlifting Federation Meet at Buellton, CA                                                                                                 | 07/2015           |
| • Powerlifting school team, University of Texas at Austin                                                                                                                                    | 08/2016 - Present |
| • Longhorn International Racing Car Design Competition Team, University of Texas at Austin                                                                                                   | 01/2017 - Present |

#### **ADDITIONAL INFORMATION**

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**Computer Skills:** MS Word, Excel, PowerPoint, Java, Python, SolidWorks, MatLab, Basic knowledge of COMSOL

**Languages:** Native English; took Spanish classes; **Citizenship:** United States

#### **REFERENCE**

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Prof. William Tang, Dept. of Biomedical Engineering, Univ. of California Irvine, wctang@uci.edu, (949) 824-9892