KEVIN YU

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Objective - Seeking full-time job opportunity

EDUCATION

The University of Texas at Austin	BS, Mechanical Engineering; Manufacturing and Design; GPA 3.30	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, Failure Analysis, Medical Device Design	

PROFESSIONAL CERTIFICATE/PUBLICATION

- Certified SOLIDWORKS Associate for Mechanical Design by Dassault Systèmes SOLIDWORKS Corp 2016
- Fundamentals of Engineering (FE) exam by National Council of Examiners for Engineering and Surveying (NCEES) 2019
- An Individual-specific, Affordable, Robotic Gait Trainer for People with Neurological Injury, Sung Yul Shin 2017

WORK EXPERIENCE

HP Inc. – *Capstone Senior Design Project; Houston, TX* 08/2019 – Present
- Designed and developed laptop measuring fixture using optomechanical system with microns accuracy
- Utilized computer vision and edge detection to find and measure object edges to desired tolerance
- Integrated and built specifications for purchasing linear encoders and linear actuator system

SHINE Medical – *Process Engineering Intern; Janesville, WI* 05/2018 – 08/2018
- Developed the SHINE Medical manufacturing process to produce cancer treatment elements for nuclear medicine
- Utilized SolidWorks to support the modal analysis of Neutron Driver Assembly System (NDAS)
- Modeled SuperCell pressure vessels in SolidWorks using SolidWorks Weldments and Sheet Metal

NASA Johnson Space Center – *Advanced Thermal Technology Intern; Houston, TX* 01/2018 – 05/2018
- Spearheaded the development and design of the Fusible Heat Sink test article to evaluate the efficiency of a Phase Change Material Heat Exchanger (PCM HX) for Lunar Orbital Platform-Gateway (LOP-G)
- Worked with Habitable Airlock Module team and machinist to manage and reduce test article budget and fabrication time
- Presented and defended Fusible Heat Sink test article design during design reviews with upper management to raise funding for the Fusible Heat Sink test article

PneumRx, Inc/BTG Company – *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
- 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
- Presented research results at a biomechanics convention, collaborators including UT Austin and St. David's Medical Center

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 mobile device for malaria disease

EXTRACURRICULAR ACTIVITIES & HONORS

- Powerlifting Team, Judo Team, and Brazilian Jiu Jitsu Team, University of Texas at Austin 08/2016 - Present
  1st place in Gi and No Gi Longhorn Tournament. Competed and volunteered at collegiate powerlifting meets.

ADDITIONAL INFORMATION

Skills: Python, SolidWorks, MATLAB, Creo, GD&T, CNC Machining, Lathe and Mill, DFM and DFA, Prototyping, FEA, Medical device design, FMEA, Simscape, Mechanical Design