KEVIN YU

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Objective - Seeking summer internship opportunity

EDUCATION

The University of Texas at Austin	BS, Mechanical Engineering; Manufacturing and Design	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

WORK EXPERIENCE

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)
• Redesigned and updated the Extraction Hot Cell piping and equipment layout in collaboration with nuclear safety engineers
• 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
• Applied heat transfer, fluid mechanics, and thermodynamic principles to resolve space exploration problems
• 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 HAL 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
• Used 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
• Collaborated and brainstormed with R&D team to reduce operation time and procedure difficulty

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 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 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: Java, Python, SolidWorks, LabVIEW, MATLAB, COMSOL, Simscape, Creo, MS Office
Languages: Native English; **Citizenship**: United States