

KEVIN YU

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Objective - Seeking Full-Time Job Opportunity

EDUCATION

The University of Texas at Austin	BS, Mechanical Engineering; GPA 3.24	2015-2019
Relevant Courses Taken	Mechanics of Solids, Fluid Mechanics, Thermodynamics, Statics, Dynamic Systems and Controls, Dynamics, Heat Transfer, Material Selection, Machine Tool Operations, Design Methodology, Mechatronics	

PROFESSIONAL CERTIFICATE

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

SHINE Medical – Process Engineering Intern; Janesville, WI	05/2018 – 08/2018
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Created SolidWorks animations and models of a self-diagnostic mobile device for malaria disease	

EXTRACURRICULAR ACTIVITIES & HONORS

• Longhorn Powerlifting, UT Brazilian Jiu-Jitsu, UT Judo, University of Texas at Austin	08/2016 - Present
1 st place in Gi and No Gi at Longhorn Open Tournament, Trained 12 hours a week, competed and volunteered at meets.	

ADDITIONAL INFORMATION

Computer Skills: Java, Python, SolidWorks, LabVIEW, MATLAB, Creo, CNC machining, Lathe and Mill machining, DFM, Additive manufacturing, Drawing generation, Prototyping, SolidWorks FEA, GD&T
Languages: Native English; **Citizenship:** United States