

Alexander C. Lee

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Education

Yale College, New Haven, CT	May 2017
B.S. in Mechanical Engineering (ABET)	GPA: 3.66
<i>Coursework:</i> Innovation, Engineering, & Design; Mechanical Design Implementation; Dynamics; Mechatronics; Computer Engineering; Electronics; Linear Algebra; Ordinary & Partial Differential Equations; Thermodynamics & Lab; Fluid Mechanics;	GMAT: 770
	GRE: 167V/170M
University High School, Normal, IL	May 2013
High School Diploma, Valedictorian	GPA: 4.0

Technical Experience

Yale University Biomechanics and Control Lab, New Haven, CT	Sept. 2015 – Present
<i>Researcher</i>	
<ul style="list-style-type: none"> Designed experiment to test PI's hypothesis regarding the effects of reactionary, non-work forces upon body orientation stability of two-legged jumpers Used SolidWorks for simulation, design, and Matlab script verification purposes Designed and created model of pelvic joints for working mechanical jumper Designed set-up of and conducted data collection using Vicon Nexus and FastCam set-up 	
Hyve, New Haven, CT	Jun. 2016 – Sept. 2016
<i>Independent Contractor</i>	
<ul style="list-style-type: none"> Completed proof of concept for new device to help professionals respond to fallen elderly Designed device exterior to house electronics with analysis to demonstrate robust structure Integrated hardware modules using Arduino and C 	

Leadership and Outreach Experience

Yale Center for Engineering, Innovation, and Design	Sept. 2016 – Present
<i>Design Aide</i>	
<ul style="list-style-type: none"> Consulted for undergraduate and graduate engineering projects at weekly expert hours Ran workshops to introduce key engineering software and concepts to underclassmen 	
Yale University Branch of American Society of Mechanical Engineers	Sept. 2015 – Present
<i>Treasurer (past), Vice-President (current)</i>	
<ul style="list-style-type: none"> Served as point of contact between ASME chapters, Yale faculty, and Engineering students Instigated the annual Engineering Career Panel and STEM Extra-Curricular Bazaar 	
Out of the Blue, Inc.	May 2014 – Oct. 2016
<i>Business Manager, Rush Manager, Tour Manager, performing member</i>	
<ul style="list-style-type: none"> Raised over \$25,000 through performances at schools, public venues, and corporate events Negotiated the contracts and planned the timetable for the recording, editing, mixing, mastering, and distributing of the album "120" Co-founded, served on the Out of the Blue Alumni Capital Fund board, attained company 501c (3) status 	

Awards and Distinctions

The University Physics Competition Bronze Medal	Jan. 2016
<ul style="list-style-type: none"> Wrote proposal to use asteroid collisions to create a Mars atmosphere capable of sustaining water 	
Richard U. Light Fellowship Award	Feb. 2015
<ul style="list-style-type: none"> Awarded full tuition and transportation scholarship to further Mandarin language study at the Beijing Language and Culture University with the Harvard Beijing Academy Program 	
The University Physics Competition Silver Medal	Jan. 2015
<ul style="list-style-type: none"> Wrote proposal to analytically find stable planetary orbits around binary star systems 	

Skills and Other Interests

Software: SolidWorks, AutoCad, CorelDraw, Excel, IgorPro, Vicon Bodybuilder, LaTeX

Script: C++, MatLab, Arduino

Tools: Makerbot 3D Printer, Laser Cutter, Drill Press, CNC Mill, Lathe, Hand tools

Other Interests: Rock Climbing, Tennis, Ultimate, A Cappella, Ping-pong, Rapid Prototyping and Design