

ANDREW WILLIAM HICKEY

Palo Alto, CA 94305 • awhickey@stanford.edu • stanford.edu/~awhickey

Education

Stanford University – Stanford, CA	December 2017
<i>M.S. in Mechanical Engineering (Mechatronics depth – C programming)</i>	GPA: 3.97/4.00
Arizona State University Barrett, the Honors College – Tempe, AZ	May 2016
<i>B.S.E. in Mechanical Engineering</i>	GPA: 4.00/4.00
Thesis: Heat Transport System Design	
<ul style="list-style-type: none">Outstanding Engineering Graduate: Top graduate selected by the school of engineering - bit.ly/OutstandingGrad.National Silver Medalist in Engineering Technology: Invented rotary combustion engine - bit.ly/RotEngine.2x Edson Entrepreneurship Award: \$40,000 seed funding and training for venture acceleration - bit.ly/ASUedson.Lambda Chi's 30 under 30: Recognized for my leadership from 280,000 national members - bit.ly/LCA30under30.	

Work & Research Experience

McKinsey & Company – Chicago, IL	June 2017 – August 2017
<i>Summer Business Analyst – Digital McKinsey</i>	
Intel Corporation – Chandler, AZ	May 2016 – September 2016
<i>Technology Development Intern – Manufacturing Operations</i>	
<ul style="list-style-type: none">Led 5-person project to improve a supplier's manufacturing procedure by 20% -- JMP.Researched injection molding processes and mathematical models to increase part strength by 35% and life by 20%.	
Tallwave Capital – Scottsdale, AZ & Santa Monica, CA	May 2016 – September 2016
<i>Venture Capital Consultant Intern</i>	
<ul style="list-style-type: none">Optimized a client's product blending algorithm (5% more accurate) and on demand manufacturing to reduce lead time.Conducted usability testing on iOS app user interface and revised app design to better meet user needs and preferences.	
Ford Motor Company – Dearborn, MI	May 2015 – August 2015
<i>Product Development Intern – Engine Research & Advanced Engineering Department</i>	
<ul style="list-style-type: none">Created graphical user interface in MATLAB that analyzed experimental data 1500% faster and reduced error by 10%.Identified the extent of oil degradation using Fourier Transform Infrared Spectroscopy (FTIR) and principal component analysis (PCA) to statistically determine correlated variables and internal structures in statistical software -- JMP & Minitab.Presented to chief engineer and was 1 of 5 interns selected, based on performance, to meet the Executive Vice President.	

Extracurricular Activities & Leadership Roles

BeeSprout Edson Student Entrepreneur Initiative (bit.ly/Beesprout)	May 2015 – Present
<i>Co-founder & Product Development Lead</i>	
<ul style="list-style-type: none">Designing hardware for garden monitoring system that utilizes machine learning -- programming in C, C++ and JavaScript.Conducted surveys and interviews to understand user needs and determine opportunities in the market.	
TinkTank (non-profit) – Phoenix, AZ	January 2014 – August 2015
<i>CEO & Co-Founder</i>	
<ul style="list-style-type: none">Created mobile techshop platform that visited underprivileged schools that do not have resources to teach STEM skills.Implemented 5 successful pilot programs as proof of concept to successfully partner with Arizona State University.	
Lambda Chi Alpha – Tempe, AZ	January 2014 – May 2016
<i>Scholastic Chairman</i>	
<ul style="list-style-type: none">Implemented scholastic program for 128-member chapter to assist in academic and personal growth.Led chapter from an average member 3.17 GPA to a school high 3.42 GPA -- received Standards of Excellence Award.	
InnovationSpace Women & Philanthropy – Tempe, AZ	August 2015 – May 2016
<i>Product Development Lead</i>	
<ul style="list-style-type: none">Received \$100k grant to join interdisciplinary team to design a disability device -- received ASU's Design Excellence Award.Designed and built Bluetooth bone conducting audio receiver with fabricated enclosure and display.	
Intel Maker Challenge – Tempe, AZ	Summer 2016
<ul style="list-style-type: none">Created home & garden automated system controlled by a web server – in C++ and Javascript.	

Interests & Programming/Software Languages

Hobbies:	Zip Line Guide for 2 years, AZ Cardinals, inventing devices, financial markets/investing, soccer, tennis, UX design
Competent:	MATLAB, C, C++, SolidWorks, JMP, Excel, Six Sigma Green Belt
Knowledgeable:	JavaScript, R, Python, CSS, Swift, LabVIEW, Minitab, HTML5, Patron, Moldflow