

ANDREW WILLIAM HICKEY

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Education

Stanford University – Stanford, CA	December 2017
<i>M.S. in Mechanical Engineering (Mechatronics depth – C programming)</i>	GPA: 4.00/4.00
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

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.	
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 and implemented manufacturing improvements for suppliers that improved processes by 20%.Researched molding processes and mathematical models to increase part strength by 35% and life by 20%.	
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++ 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.	
Amazon Echo Hackathon – Phoenix, AZ	Summer 2016
<ul style="list-style-type: none">Programmed skills for the Amazon Echo that interpret user's speech and performs a specific task – won a Amazon Tap.	
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, SolidWorks, JMP, Excel, Six Sigma Green Belt
Knowledgeable: JavaScript, R, Python, CSS, C++, Swift, LabVIEW, Minitab, HTML5, Patron, Moldflow