ANDREW WILLIAM HICKEY

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Education

Stanford University - Stanford, CA

December 2017

May 2016 GPA: 4.00/4.00

M.S. in Mechanical Engineering

Arizona State University | Barrett, the Honors College - Tempe, AZ

B.S.E. in Mechanical Engineering

Thesis: Heat Transport System Design

- National Silver Medalist in Engineering Technology: Invented rotary combustion engine bit.ly/RotEngine.
- Outstanding Engineering Graduate: Top graduate selected by the school of engineering bit.ly/OutstandingGrad.
- 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.

Six Sigma Green Belt May 2016

Work & Research Experience

Intel Corporation - Chandler, AZ

May 2016 - September 2016

Technology Development Intern – Manufacturing Operations

- Led project that improved a manufacturing process by 40% using statistical methods (DOE) and managing team.
- Researched injection molding processes and utilized CFD to increase part strength by 35% and life expectancy by 20%.

Tallwave Capital – Scottsdale, AZ & Santa Clara, CA

May 2016 - Present

Venture Capital Consultant

- Analyzed clients' alignment with their customer demographic with large data processing and surveying.
- Optimized a client's product blending algorithm and on demand manufacturing equipment to reduce lead time.
- Conducted usability testing on iOS app UI to revise design to better meet user needs and preferences.

Ford Motor Company – Dearborn, MI

May 2015 - August 2015

Product Development Intern – Powertrain Research

- 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.

Arizona State University - Tempe, AZ

August 2014 - May 2015

First Year Success Coach

- Met with an average of 11 students each week for the Intensive Coaching Unit that focused on diverse students who struggled financially, academically and/or were a first generation student.
- Recipient of the "Catalyst Award" (1 out of 75 coaches) for "exceptional ability to inspire, impact and motivate students."

Extracurricular Activities & Leadership Roles

BeeSprout | Edson Student Entrepreneur Initiative (bit.ly/Beesprout)

May 2015 – Present

Co-founder & Product Development Lead

- Designing hardware for garden monitoring system that utilizes machine learning programming in C++ and Javascript.
- Established a lean startup business plan and partnership with manufacturer.

InnovationSpace | Women & Philanthropy – Tempe, AZ

August 2015 - May 2016

Product Development Lead

- 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.
- Included: research, concept generation, detailed design, analysis & verification testing, and design for manufacturing.

TinkTank (non-profit) - Phoenix, AZ

January 2014 - August 2015

CEO & Co-Founder

- Created mobile techshop platform that visits underprivileged schools that do not have resources to teach STEM skills.
- Implemented 5 successful pilot programs as proof of concept, a business strategy, and exit with ASU partnership.

Interests & Programming/Software Languages

Hobbies: Zip Line Guide for 2 years, AZ Cardinals, inventing new devices, soccer, tennis, rappelling, designing websites, hiking

Competent: MATLAB, SolidWorks, JMP, Excel

Knowledgeable: JavaScript, Python, CSS, C++, LabVIEW, Minitab, HTML5, Patron, Moldflow