ANDREW WILLIAM HICKEY

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

Education

Stanford University – Stanford, CA — December 2017
M.S. in Mechanical Engineering (Mechatronics depth) — **GPA:** 3.97/4.00

Arizona State University | Barrett, the Honors College – Tempe, AZ — May 2016
B.S.E. in Mechanical Engineering — **GPA:** 4.00/4.00

- **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.

Work & Research Experience

McKinsey & Company – Chicago, IL — June 2017 – August 2017
Summer Business Analyst – Digital McKinsey

- Performed due diligence for a joint venture through market sizing analysis, expert interviews, and strategic discussions.
- Guided meetings with CIO to gather information, align on strategic next steps, and determine synergy targets for merger.

Intel Corporation – Chandler, AZ — May 2016 – September 2016
Technology Development Intern – Manufacturing Operations

- Led 5-person project to improve a supplier's manufacturing procedure by 20% using statistical analysis.
- 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
Venture Capital Consultant Intern

- Analyzed market size for portfolio companies through research, interviews, and large data analysis.
- Improved a company's product blending algorithm (5% more accurate) and on demand manufacturing to reduce lead time.
- Evaluated 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
Product Development Intern – Engine Research & Advanced Engineering Department

- 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.

Extracurricular Activities & Leadership Roles

BeeSprout | Edson Student Entrepreneur Initiative (bit.ly/Beesprout) — May 2015 – May 2017
Co-founder & Product Development Lead

- Designed hardware for garden monitoring system that utilizes machine learning -- programming in C, C++ and JavaScript.
- Facilitated surveys and interviews to understand user needs and determine opportunities in the market.

TinkTank (non-profit) – Phoenix, AZ — January 2014 – August 2015
CEO & Co-Founder

- Organized mobile tech shop 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
Scholastic Chairman

- Led 128 member chapter from an average 3.17 GPA to a school high 3.42 GPA -- received Standards of Excellence Award.

InnovationSpace | Women & Philanthropy – Tempe, AZ — August 2015 – May 2016
Product Development Lead

- Received $100k grant to join interdisciplinary team to design a hardware device -- received ASU's Design Excellence Award.
- Programmed and fabricated Bluetooth bone conducting audio receiver with fabricated enclosure and display.

Intel Maker Challenge – Tempe, AZ — Summer 2016

- Engineered 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: Excel, Six Sigma Green Belt, C, C++, MATLAB, SolidWorks, JMP
Knowledgeable: JavaScript, R, Python, CSS, Swift, LabVIEW, Minitab, Patron, Moldflow, AutoCAD