Andrew Scott Meyers

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EDUCATION

University of California, Berkeley — **Berkeley, CA**
Masters of Science, Mechanical Engineering, *GPA: 4.0* — *Expected: Fall 2019*
Bachelors of Science, Mechanical Engineering, *Major GPA: 3.8* — *Fall 2018*
Relevant Coursework: Green Product Development, Mechatronics, Robotics, Machine Learning, Rapid Prototyping, Finite Element Analysis, Experimental Design, Feedback & Controls, Dynamics, Fracture Mechanics, Heat Transfer

PROFESSIONAL & RESEARCH EXPERIENCE

Apple — **Cupertino, CA**
Product Design Engineering Intern — *May 2018 – August 2018, May 2019 – August 2019*
- Led the early-stage architecture for a new battery cell design.
- Executed design validation (testing, metrology, statistical analysis) to maximize battery capacity on an NPI program.
- Conducted a multi-team investigation on critical battery experimentation through dynamics driven design.

Tesla — **Fremont, CA**
Mechanical Design Engineering Intern — *September 2017 – December 2017*
- Developed and implemented equipment to test, prototype, and validate drivetrains, power conversion units, and batteries and identified root cause of failure modes to improve manufacturability and quality on the Roadster, Model S/X, and Model 3.

Facebook — **Menlo Park, CA**
Technical Program Manager— Infra Connectivity Deployments Intern — *June 2017 – August 2017*
- Oversaw deployments for the "Terragraph", a multi-node wireless system that can provide high-speed internet to dense urban areas.
- Devised a process that utilizes deployment/product related lessons learned based on feedback from San Jose, India, and Menlo Park.
- Prototyped and established various tools for the Terragraph to expedite installation and automate permitting packages.

CIBER Lab — **Berkeley, CA**
Mechanical Design Researcher — *June 2016 – January 2017*
- Developed and tested a bio-inspired robot that utilizes the same mechanisms of dynamic turning in lizards.

PROJECTS

Mars Rover Robot Arm — *Spring 2019*
- Led the programming and embedded systems architecture design for a 5DOF serial manipulator as part of a Mars Rover project.

Robot Collaboration with ROS, LIDAR, and VR (artemisbots.com) — *Fall 2018*
- Assembled a 1/8th scale autonomous car that utilizes a LiDAR sensor, 3 cameras, an IMU, and more through ROS.
- Combined a VR-controlled robotic manipulator into the car's environment so the two robots can solve various tasks in unison.

Portable Medication Cooler — *Spring 2017*
- Developed a portable medication cooler that monitors and logs conditions, and notifies user if temperature goes out of range.
- Integrated cooler with versatile inserts allowing one to refrigerate other products such as a tall soda can or makeup.

Apollo Command Module — *Spring 2017*
- Wrote two finite element programs using MATLAB and an FEM toolkit to analyze how the Apollo Command Module behaved under thermal load during atmosphere re-entry and under mechanical load after parachute deployment.

Automatic Pizza Slicer — *Fall 2016*
- Designed a fully automatic pizza cutting machine in SolidWorks with an offset slider-crank and Geneva wheel mechanism.

ACTIVITIES & LEADERSHIP

Berkeley Hyperloop — **Berkeley, CA**
Co-Lead — *February 2016 – December 2016*
- Led an R&D focused team that sought to provide solutions to various technological challenges for the Hyperloop project.
- Projects include low pressure compressor design, high speed maglev, station design, and economic analysis of Hyperloop concept.

American Society of Mechanical Engineers— *UC Berkeley Chapter Corporate Liaison* — *May 2016 – May 2018*

SKILLS, INTERESTS & AFFILIATIONS

Computer: MATLAB, SolidWorks, R, JMP, Python, Siemens NX, ROS, Java, AutoCAD, Microsoft Office, Adobe Creative Suite
Interests: Product Design, Product Management, Internet Connectivity, Smart Cities, Renewable Energy, Scuba Diving, Traveling
Affiliations: Cal Rover, AMAC, American Society of Mechanical Engineers, Hyperloop Initiative Program, ASCE, Alpha Epsilon Pi