

Andre A. Apostol

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Summary

I am a vibrant, energetic, self-starter with a deep interest in technology and its applicability to solving real-world problems. I am particularly interested in mechanical control systems with a passion for design in the development of autonomous vehicles. I am interested in advancing this technology to improve the overall transportation infrastructure and I look forward to complementing my academic work with additional practical work experience.

Education

Clemson University

Clemson, South Carolina

1st year PhD candidate in *Mechanical Engineering*

- **National Science Foundation** Research Traineeship (NRT) Program Fellow
- Research focus on resilience improvement for the transportation infrastructure through the advancement of autonomous vehicle technology

Arizona State University (ASU) - *Barrett, The Honors College*

Tempe, Arizona

Bachelor of Science in Mechanical Engineering, Cum Laude

Graduation Date: May 2017

- ASU New American University Scholar - Dean's Award
- Barrett Honors Thesis: *Apparatus for Efficient Acquisition of Steering Friction Data*
- Academic Honors from ASU Ira A. Fulton School of Engineering - Dean's List
- Major concentration: Solid/Structural Mechanics, System Dynamics & Control, Engineering Programming

ASU Fulton Undergraduate Research Initiative (FURI):

- Worked in the "ASU Birth Lab" contributing to research with micro-robots. I assisted with the setup of the magnetic coil controls and designed a support fixture for the octo-mag coil system.

Key Projects:

- Partnered with Nissan to complete my undergraduate honors thesis, creating a device to automate a rack pull friction test on a vehicle. The device can pull the car rack at constant rates, is adjustable for different car sizes, and programmed to terminate movement at the wheel locks.
- Constructed a retraction system for an Orbital ATK Rocket Cover. As chief engineer of my capstone team, I designed the critical electronic setup and dynamic component retraction section.

Work Experience

Nissan North America – Aug 2016 – September 2017

Stanfield, AZ; Farmington Hills, MI

- Created database of vehicle characteristics from multiple automobile manufacturers. Data was filtered and analyzed to generate a competitive analysis for Nissan
- Analyzed competitor vehicles to effect design for intelligent key entry systems for future Nissan models
- Engaged in driver training to improve subjective evaluation skills to understand the overall customer experience based on objective data (e.g. response, gain, delays, steering effort)

Sonic Manufacturing Technologies – 2014, 2015 Summer Internship

Fremont, CA

- Designed a mechanical carrier for a printed circuit board (PCB) and a temperature measuring device which are used to create a thermal profile of a board traveling through a wave solder machine
- Used solid works to model and design a PCB holding device and worked closely with the fixture fabrication vendor, managing the process to construct and produce my design

Personal

- Barrett Honors College Choir – piano and vocal soloist
- ASU Intramural soccer, softball, and flag football captain