# Simone Nazareth

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## EDUCATION:

**Florida State University,** Tallahassee, FL
*Bachelor of Science, Mechanical Engineering* May 2018
FSU Honors Program; Cumulative GPA: 3.55
**The GREEN Program**, Reykjavík University, Iceland Spring 2017

- *Alternative Spring Break focused on sustainability and global thinking*
- *CAPSTONE project: Solar Powered Electric Buses*

## SYSTEMS PROFICIENCIES:

- SolidWorks
- Matlab, C++, C
- MathCAD
- AutoCAD
- Creo Parametric (PROE)
- Autodesk ForceEffect

## EXPERIENCE:

**FAMU/FSU College of Engineering,** Tallahassee, FL
Teaching Assistant (Intro to Thermodynamics, Thermal Fluids II) Aug 2017 – Present

- Review course assignments and provide feedback to approximately 80 students
- Explain course concepts and hold office hours outside of class

**U.S. Nuclear Regulatory Commission**, Rockville, MD
Mechanical Engineering Intern June 2017 – Aug 2017

- Analyzed documents from a vast database and extracted information pertaining to fire protection to a compact catalogue
- Streamlined the process by which nuclear power plant inspectors are able to evaluate Current Licensing Basis codes and regulations
- Developed a method for a de minimus size for tornado missile strike prevention

**Tampa Armature Works**, Riverview, FL
Mechanical Engineering Intern May 2016 – Aug 2016

- Assisted and collaborated with mechanical engineers on a daily basis
- Worked with CAD and SolidWorks to create detailed drawings
- Used CNC programming and parts modeling to fabricate sheet metal parts for manufacturing
- Worked with a laser engraver to create warning labels for low to moderate voltage generators

**Children's Cancer Center**, Tampa, FL
Summer Camp Volunteer June 2011 – July 2016

- Communicated efficiently with supervisors to ensure the safety of children
- Worked full days both indoors and outdoors with children, fellow volunteers, and volunteer coordinators
- Achieved a better understanding of working in large group setting

## DESIGN PROJECTS:

**Kite Generator** Aug 2017 – Present
Designing and testing a small scale generator powered by wind oscillation

- Design to include a glider, tether, generator, and batteries to store excess power

**Autonomous Timed Ball Dropper** Oct 2016 – Dec 2016
Helped to design and build a mechanism to automatically release one ball from an initial store every 5 seconds

- Final design included an escapement wheel and anchor, with a counterweight wrapped around the shaft to ensure wheel motion and control timing

**Airplane Cabin Simulation** Nov 2016
Coded a development board (dragonboard) to model a cabin suite in an international flight.

- Notable features included reclining chair, infotainment unit, light dimmer, and baggage return
- Some features were disabled during takeoff and landing

**Autonomous Obstacle-Detection Robot** Dec 2016
Implemented C programming to code a dragonboard, attached to two DC motors, to simulate an autonomous wheelchair tasked with transporting an individual from their car truck to a restaurant

- Required to alter its path based on external conditions, which were detected by distance sensors