# EDUCATION

Bachelor of Science, Electrical Engineering December 2014

Minor in Physics, concentration in Japanese Language

University of Florida, Gainesville, FL

GPA: 3.96/4.0

**INDUSTRY**

**Avionics Hardware Development and Integration Intern,** SpaceX August 2012 – August 2014

Hawthorne, CA

* + Developed Altium extensions in C# and Python with unsupervised learning algorithms for streamlining the avionics design process
  + Worked on thermal imaging systems on Falcon 9 Reusable to improve reliability and reduce cost
  + Designed harnesses and data acquisition circuit boards for flight on Falcon 9 Reusable and Dragon
  + Compiled data on various electronic interfaces for all current and future satellite missions
  + Developed and qualified proprietary avionics systems to improve safety and reliability of all future Falcon 9 and Falcon Heavy flights, using Matlab, C++, and Bash

**Engineering and Science Tutor**, instaEDU.com May 2013 – Present

Gainesville, FL

* + Taught science, math, and engineering concepts to students ranging in age from middle school to college
  + Designed and developed a proof-of-concept math training resource to visually teach students about solving equations

**Sponsored Engineer**, Integrated Product and Process Design Program August 2013 – May 2014

Stryker Sustainability Solutions at University of Florida, Gainesville, FL

* + Lead and worked with in a multidisciplinary team of engineers
  + Designed, manufactured, and tested a C-based embedded system and fixture to rapidly test the integrity of the circuitry inside a particular ultrasonic scalpel surgery tool

**ACADEMIA**

**Teaching Assistant**, Linear Control Systems Course and Lab August 2014 – Present  
University of Florida, Gainesville, FL

* + Conducted weekly lab sessions for students to gain experience using Matlab for linear controls applications
  + Taught students basic concepts, such as state space system modeling and lead and lag controller design
  + Graded homework and exams

**Optics in the City of Light REU Researcher**, Biophotonics Group June 2013 – July 2013  
Institut d’Optique, Palaiseau, France

* + Constructed 3-dimension Full-Field Optical Coherence Tomography setup to support a cell-level study
  + Characterized spherical aberration and image quality degradation as a function of conjugation position by programming LabVIEW control system and Matlab data-processing script

**LEADERSHIP**

**Founder**, “Five for Tanzania” Charity Fundraiser for Rhotia Valley, Tanzania September 2010 - Present

University of Florida

* + Raised $2000 for the Rhotia Valley children’s home from the publicity of setting the fastest 400m while juggling five balls world record
  + Raised $1000 for tsunami victims in Japan from the publicity of setting the fastest 400m while juggling five balls world record

**Vice President**, “Objects in Motion” (Juggling Club) August 2010 – May 2011

University of Florida

* + Designed novel juggling props and developed mass production techniques
  + Designed choreography for live performances in Gainesville

**ACHIEVEMENTS**

Undergraduate financed 100% of college tuition with merit-based scholarships August 2010 - present **Guinness World Record Holder**, Fastest 400m, mile, and 5k while juggling 5 objects July 2011 – present

Commissioned Student Ambassador to Miyazu, Japan for the city of Delray Beach, FL April 2008 – June 2010