School Address
96 Eagle Street
Troy, NY 12180

MICHELLE A. GREEN

greenm9@rpi.edu
(203) 512-1491

Permanent Address
31 Paugussett Road
Sandy Hook, CT 06482

OBJECTIVE To obtain a Summer 2016 internship in the field of Electrical Engineering, specifically controls or robotics, which utilizes my analytical, leadership, and interpersonal skills.

EDUCATION

Rensselaer Polytechnic Institute Troy, NY
Master of Science in Electrical Engineering, August 2016 - May 2017
Bachelor of Science in Electrical Engineering, GPA 3.62/4.0, August 2013 - May 2017

WORK EXPERIENCE

Electrical Engineering Intern, Advanced Sensors, The Boeing Company
Huntington Beach, CA, May 2015-August 2015

- Modified C# code in Visual Studio to enhance functionality of radar modeling and simulation software
- Improved software user manual by creating and altering instructions and flowcharts in Visio Standard

Electronics Teaching Assistant, PREFACE Program, Rensselaer Polytechnic Institute
Troy, NY, July 2014

- Guided high school students in circuit building and analysis
- Advised students on the completion and debugging of provided code written in C

Resident Counselor, Summer@Rensselaer Outreach Programs, Rensselaer Polytechnic Institute
Troy, NY, July 2014

- Supervised high school students in the residence and dining halls and during outings
- Planned and facilitated group icebreakers and programming

SKILLS & COURSES

Programming Languages: Java, Python, C
Software: MATLAB, NX 8.5 (computer-aided design), PSpice, LogicWorks 5, Microsoft Office
Relevant Coursework:

Multidisciplinary Capstone Design

- Worked in an eight person team to test and improve a sensor kit for signal processing and data collection in wind turbines from previous capstone groups and deliver a final product
- Performed qualification tests on inductive sensors and LabVIEW applications
- Modified LabVIEW applications to improve the calibration process for the sensor system

Control Systems Engineering

- Applied analysis techniques such as root locus, Bode plots, Nyquist plots, and state space design to determine the stability of systems and design controllers
- Verified and refined controller designs in MATLAB

Digital Signal Processing

- Designed filters and Fast Fourier Transform algorithms in MATLAB
- Worked in a group of two to propose, research, and complete a project related to course material to process musical sound files in MATLAB

Embedded Control

- Implemented knowledge of timers, interrupts, serial communication, and control algorithms to write C code in Silicon Labs for C8051 microcontroller, accelerometer, and ultrasonic rangefinder

Spoken Languages: Conversant in Spanish

LEADERSHIP

Executive Board, Society of Hispanic Professional Engineers, Rensselaer Polytechnic Institute

- **President, April 2015-present*:*** Plans and facilitates meetings and events, serves as a liaison between various organizations both on and off campus, and oversees Outreach Weekend Staff
- **Vice President, October 2014-April 2015:** Oversaw Education Committee and SHPE Junior Committee and planned events with the Vice Presidents of NSBE, SASE, and SWE
- **Internal Secretary, April 2014-October 2014:** Oversaw and set goals for the Web Committee and coordinated the MentorSHPE Program of 40 mentors and 50 mentees

ACTIVITIES & HONORS

Piazza Silicon Valley Tech Tour Participant (14 selected from ~12000 applicants), Piazza, Winter 2016
Tau Beta Pi Engineering Honor Society, Rensselaer Polytechnic Institute, Fall 2014-present
Eta Kappa Nu Electrical Engineering Honor Society, Rensselaer Polytechnic Institute, Fall 2014-present
Dean's List, Rensselaer Polytechnic Institute, Fall 2013-Fall 2015
Pep Band, Rensselaer Polytechnic Institute, Fall 2013-present