

Bria A. Matthews

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Education

Georgia Institute of Technology | Atlanta, GA

Master of Science in Electrical Engineering (accepted)

August 2015 – Present

Bachelor of Science in Electrical Engineering, GPA 3.94

Expected Graduation, May 2020

Expected Graduation, May 2019

Skills

Programming: C, Matlab

Hardware: ARM mbed microcontroller, LaunchPad, FPGAs, oscilloscope, logic analyzer

Software: Altera Quartus II, Energia, GitHub, LTSpice, Mathcad, MIPS, Multisim, NI LabVIEW, SolidWorks

Communication: Design proposals, technical reports, instruction manuals, presentations (large and small audiences)

Experience

NextEra Energy | Jupiter, FL

Power Delivery Technical Service Intern

May 2018 – August 2018

- Entered 1000s of new construction assets into inventory system.
- Assessed 2 enterprise asset management systems to provide recommendation on best platform for the team.
- Created PI Transformer Dashboards screens for bushing monitor installs
- Supported bushing monitor and remote terminal unit (RTU) installations as needed.
- Updated one-line screens on WonderWare for RTU & RTU Lite projects

Georgia Institute of Technology | Atlanta, GA

Opportunity Research Scholar / Haiti Solar Project

August 2017 - Present

- Designed the SolidWorks file for the product enclosure necessary to protect the 25 solar charge controller prototypes.
- Distributed RELAYs and explained operation to rural Haitian community allowing for real world testing of product.
- Planned UVLO circuitry to prevent energy storage system for solar PV system from becoming depleted.
- Presented project specifications to over 50 researchers, faculty, and PhD students.
- Documented instructions so the 25 end users of solar charge controller will know how to operate product.

Research Student / Embedded Systems

January 2016 – May 2017

- Applied and developed knowledge of embedded systems to create remotely controlled vehicle with TI MSP432.
- Instructed 3 students in the initial stages of research by explaining the fundamental tools to starting individual project

Leadership

Georgia Tech Track and Field, Long and Triple Jumper | Atlanta, GA

August 2015-Present

- Motivated teammates in up to 20 hrs/week of arduous practice and competition
- Expanded upon professional skills through activities such as dinner etiquette, financial competency, and networking events.

Georgia Tech French Club, Executive Member | Atlanta, GA

January 2018 – Present

- Organized biweekly meetings enabling 20 students to practice French speaking skills and receive homework help.
- Researched off campus events that would provide nurturing environment for general body to learn about French culture.
- Advertised to find new members by holding French movie nights and participating in GT Unite (campus club fair).

Volunteer

Girls on the Run | Atlanta, GA

August 2015-Present

- Led 30 middle school girls in warm-up and practice for 5k races.
- Motivated over 50 young girls and adults of all ages to begin 5K run each year since 2015.

Jackets Without Borders | Cartago, Costa Rica

August 2018

- Introduced over 100 high school students to American dancing and basketball, overcoming the language barrier.
- Guided 2 students in painting lines on multipurpose court and weeding a 150 sqft garden area.
- Adapted to new work schedule when rain delayed cement drying time allowing transformation of grass field into a brand new multipurpose court after only 2 weeks.

Junior Achievement | Atlanta, GA

December 2017

- Instructed 15 middle school students in running a Chick Fil A including tasks of advertising, sales, and bookkeeping.

Fellowship of Christian Athletes | Dominican Republic

December 2015

- Instructed 50 local children in common American games such as hide and seek
- Directed and aided children in painting the walls of a community activity center.

Conferences

- **North American Power Symposium (NAPS) | Fargo, ND**

September 2018

- J. K. Smith, A. Kinsel, B. A. Matthews, and J. Sun, "Haiti RELAY: A Cost-Effective and Portable Solar Home System for Rural Haitian Regions," presented at the North American Power Symposium, Fargo, ND, USA, 2018.

- **TECHCON | Austin, TX**

September 2018