Andy Yang

Contact Information

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Education

University of Florida, Gainesville, FL

B.S., Electrical Engineering, 3.9 GPA **Aug 2016 - Aug 2020**

Professional Experience

University of Florida, Gainesville, FL

Design 1 Teaching Assistant **Jan 2020 – present**

Main responsibilities are to guide students as they learn how to debug as well as teach practical EE/CE skills. Students learn to build simple AC/DC rectification circuits, amplifiers, active filtering circuits, amplifier circuits, PCB Design, how to use micro-controllers, etc.

Power Electronics 1 Teaching Assistant **Aug 2019 – Dec 2019**

Designed the lab portion of the course. Reinforced concepts taught in class as well as introduced real world concerns such as

Texas Instruments, Dallas, TX

Power Design Services Intern **May 2019 – Aug 2019**

Designed over 13

GE Appliances, Louisville, KY

User Interface / Electronics Intern **Jan 2019 – May 2019**

Next Era Energy, Juno Beach, FL

Distributive Generation Intern **Mar 2013 – Apr 2014**

- Designed preliminary solar array layouts for ground-mount, roof top, and carport systems.
- Analyzed performance of inverters and helped team solidify inverter purchase decisions.
- Automated an internal process using excel, increasing time efficiency by 200%

Involvement & Projects

Solar Gators, Solar Car Design Team

MPPT Lead **Aug 2016 – Jan 2017**

- Designed a Maximum Power Point Tracker, implemented with a synchronous Boost Converter
- Implemented the design on a custom PCB using Altium Designer
- Implemented Perturb and Observe algorithm on an embedded processor *MPPT Lead* **Aug 2016 – Jan 2017**

Ebike Project, Freshman Project **Aug 2016 – Jan 2017**

- Learned how to engineer on a systems level – chose which off the shelf parts to use.
- Created 13s11p Battery Pack from 143 used 18650 Li-Ion cells with a homemade spot welder.
- Wrote a python script to balance capacity in each parallel group to optimize total pack capacity

Relevant Coursework &Skills

Courses: Power Electronics 1 & 2, Magnetics, Programming Fundamentals 1&2, Microprocessors, Analog Electronics, Linear Controls

Skills: Altium Designer, Matlab, SIMPLI, C, C++, Python