

# Andy Yang

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CONTACT INFORMATION Phone: (904) 994-2322      LinkedIn: <https://www.linkedin.com/in/andy-yang-engineer/>  
Email: [andy.yang@ufl.edu](mailto:andy.yang@ufl.edu)      Website: <https://andyyangengineer.com>

EDUCATION **University of Florida**, Gainesville, FL  
*B.S., Electrical Engineering, 3.91 GPA* **May 2021**

PROFESSIONAL EXPERIENCE **Texas Instruments**, Dallas, TX  
*Power Design Services Intern* **June 2020 – Aug 2020**

- Used Ansys Maxwell to simulate and optimize the design of a planar transformer.
- Designed a high voltage (up to 230Vac input) non-isolated buck converter. 24Vout, 1Amax.
- Designed a UPS system focused on low cost with battery charging.

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

- Designed an embedded transformer in a 10 layer PCB for use in a Half Bridge Rectifier with Current Doubler Output. Specs:  $V_{in}$  = 24V–32V,  $V_{out}$  = 0.5V–1V,  $I_{out}$  = 40A. PMP22089.
- Designed an inverting buck boost converter – schematics to PCB.
- Designed schematic for a low power DCM Flyback Converter.
- Worked on over 13 Design Requests (block diagrams, test reports, parts selection etc).

**GE Appliances**, Louisville, KY

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

- Supported team by debugging hardware and software issues. Accelerated product release dates. Implemented light sensing equipment to quantify display quality issues.

**Next Era Energy**, Juno Beach, FL

*Distributive Generation Intern* **Mar 2017 – Aug 2017**

- Designed preliminary solar array layouts for ground-mount, roof top, and carport systems.

INVOLVEMENT & PROJECTS **University of Florida**, Gainesville, FL

*Teaching Assistant* **Aug 2019 – Present**

- *Design 1*: Guided students as they learn how to debug and how to build simple AC/DC rectification circuits, amplifiers, and rudimentary active/passive filtering circuits. Students also learned PCB Design, embedded programming, communications protocols, etc.

- *Power Electronics*: Taught students to use electronics loads, power supplies, current sensor, and oscilloscopes to measure and test switching converters. Reinforced theory learned in class.

**PEEPRL Lab**, Dr. Shuo Wang's Research Group

*Research Assistant* **Aug 2020 - May 2020**

- Assisting in research of FET gate drive circuitry with digital control to reduce EMI in inverters.
- Researched literature on DPP and investigated potential for use in Solar Car.

**Solar Gators**, Solar Car Design Team

*MPPT Lead / Electrical Lead* **Aug 2017 – Dec 2018**

- Designed a Maximum Power Point Tracker with a boost converter.
- Managed electrical design team of 20 persons. Integrated electrical subsystems.
- Managed project timeline, and gave direction for electrical systems designs.

**Ebike Project**, Freshman Project

**Aug 2016 – Jan 2017**

- Learned to engineer on a systems level by integrating different off the shelf components
- Created 13s11p Battery Pack from 143 used 18650 Li-Ion cells with a spot welder.

RELEVANT SKILLS *Skills*: Altium Designer, MATLAB, LTspice, SIMPLIS, C, C++, Python, Ansys Maxwell, Embedded Processing, Power Supply Layout