

Andy Yang

CONTACT INFORMATION	Phone: (904) 994-2322 Email: andy.yang@ufl.edu	LinkedIn: https://www.linkedin.com/in/andy-yang-engineer/ Website: https://andyyangengineer.com
EDUCATION	University of Florida , Gainesville, FL <i>B.S., Electrical Engineering, 3.91 GPA</i>	May 2021
PROFESSIONAL EXPERIENCE	Texas Instruments , Dallas, TX <i>Power Design Services Intern</i>	June 2020 – Aug 2020 <ul style="list-style-type: none">• 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. <i>Power Design Services Intern</i>
	<ul style="list-style-type: none">• 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).	May 2019 – Aug 2019
	GE Appliances , Louisville, KY <i>User Interface / Electronics Intern</i>	Jan 2019 – May 2019 <ul style="list-style-type: none">• 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 <i>Distributive Generation Intern</i>	Mar 2017 – Aug 2017 <ul style="list-style-type: none">• Designed preliminary solar array layouts for ground-mount, roof top, and carport systems.
INVOLVEMENT & PROJECTS	University of Florida , Gainesville, FL <i>Teaching Assistant</i>	Aug 2019 – Present <ul style="list-style-type: none">• <i>Design 1</i>: 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.• <i>Power Electronics</i>: 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 <i>Research Assistant</i>
	<ul style="list-style-type: none">• Assisting in research of FET gate drive circuitry with digital control to reduce EMI in inverters.• Researching literature on DPP and investigating potential for use in Solar Car.	Aug 2020 - May 2021
	Solar Gators , Solar Car Design Team <i>MPPT Lead / Electrical Lead</i>	Aug 2017 – Dec 2018 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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	<i>Skills</i> : Altium Designer, MATLAB, LTspice, SIMPLIS, C, C++, Python, Ansys Maxwell, Embedded Processing, Power Supply Layout	