

Stanley Zheng

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Education

Bachelor of Science in Electrical Engineering

University of Florida Herbert Wertheim College of Engineering.

Gainesville, FL

May 2025

- GPA: 3.72/4.00; SAT: 1440/1600, M: 800/800

Skills

Relevant Coursework: Circuits 1, Circuits 2, Electrical Engineering Design 1, Professional Communication for Engineers, Basic Electric Energy Engineering, Power Systems Analysis, Fundamentals of Electromagnetic Fields, Electronic Circuits 1, Solid-State Electronic Devices, Analytic Geometry and Calculus 3, Elementary Differential Equations

Languages: Mandarin (Conversational), English (Native), Intermediate Spanish (3 years), Foundational Japanese (1 year)

Awards: Dean's List (2021, 2023), Bright Futures Academic Scholarship (2021), Bob & Mary Sierra Family Foundation Scholarship (2021)

Software: Proficient in Word, Excel, Outlook, and PowerPoint, and experience in Altium Designer

Certifications: Qualcomm Technologies 5G Introductory-Level, LEED Green Associates, Engineering in Training (EIT) (Expected April 2025)

Project Experience

Standardization of Workbooks – Tampa Electric Company

October 2024

- Developed and significantly improved existing workbooks that kept track of solar generation data every month, resulting in a more organized, accurate, and efficient method in data entries.
- Organized anomalies data from Raptor Maps IR Scans that will be used by site supervisors in determining priorities across the sites.

Multi-Function Desk Light

April 2024

- Created a circuit schematic and PCB design with Altium Designer featuring a timer, stopwatch, temperature sensor, LED strip, and a small lamp used in a work area; users can toggle switches to turn on certain functions with statuses displayed on a display.
- Controlled functionalities with a microcontroller and MicroPython based on user inputs, producing satisfactory and accurate results.

Ohmmeter

February 2024

- Using an analog-to-digital converter, a microcontroller, and MicroPython to measure the resistances of resistors (with Microsoft Excel to plot measured and expected values to obtain more accurate relationships in the program) with measurements displayed within 5%.

Power Supply Design

January 2024

- Converted a 120V AC supply from a wall outlet to a steady 5V DC source using a pair of coupling transformers, full-wave-rectifier, a low-pass filter, and a voltage regulator; can also set a certain current limit through a load resistor; results were within 1-2%.

Experience, Leadership, and Professional Development

Tampa Electric Company – Solar Engineering Co-op

September 2024 – December 2024

- Enhanced Excel workbook using VBA to keep track of Raptor Maps data for anomalies detected and resolved across solar sites, along with data and charts for each site supervisors.
- Standardized Monthly Reports by using VBA in creating a more organized and efficient workbook for data entries.
- Performed numerous solar site visits in identifying safety concerns and enhanced knowledge of solar power plant systems.
- Identifying spare parts from drawings and creating an inventory of critical parts and equipment for ease of purchasing in the future.

Hong Kong (Cashier and Delivery)

December 2016 – September 2024

- Efficiently managed customer and phone orders so customers were assisted promptly while overseeing the frying station to ensure that orders are received in the shortest time possible with the best service.
- Improved customer service while addressing and resolving complaints efficiently to ensure customers' utmost satisfaction resulting in increased number of returning customers by 10-15%.
- Improved delivery service to ensure prompt deliveries, minimizing wait times resulting in increased satisfaction; maintained a safe and hygienic working environment to meet restaurant standards.

Audio Engineering Society

November 2023 – May 2024

- Attending weekly team workshops to explore the audio aspect of Electrical Engineering to design and build tools using electrical components and PCB suitable for musical concerts.
- Actively monitoring and engaging in the team's online discussion environment to expand knowledge on the projects and networking opportunities.

Solar Gators

September 2023

- Engaged in team meetings to discuss and learn about the steps involved in building a solar car for a racing competition.
- Gained exposure to using Altium Designer software for circuit and PCB design.