**EDUCATION**

**University of Florida**, Herbert Wertheim College of Engineering **Gainesville, FL**

*Master of Science in Engineering*: Electrical Engineering, August 2023

**Relevant Courses:** Deep Learning with Neural Networks, Machine Learning with Time Series, IoT Security and  
Privacy, Computer Communications, Fundamental Engineering Project Management

**2020 Graduate School Preeminence Award**

**University of Florida**, Herbert Wertheim College of Engineering **Gainesville, FL**

*Bachelor of Science in Engineering, Cum Laude*: Electrical Engineering, December 2019

**Relevant Courses:** Real-Time DSP Applications, Machine Learning, Microprocessor Applications, Electronic

Circuits, Digital Integrated Circuits

**SKILLS**

Laboratory: Data acquisition and analysis for ECG, EMG, EEG, and respiration, Researching, Cognitive neuroscience

Computer: SolidWorks, AutoCAD, C++, C, Java (Basic), MATLAB, R (Basic), Python, Altium Designer, Microsoft Office,

GIT, Photoshop, AWS IoT Systems, Linux, Jupyter, Signal Processing (Analog/Digital)

Hardware: Soldering, Printed Circuit Board (PCB) Design, PCB Assembly, Electrical Wiring, Embedded Systems, Quality Control, Prototyping

**PROFESSIONAL/WORKING EXPERIENCE**

October 2023-Present Publix Gainesville, FL

**Customer Service Representative – Cashier**

* Accurately and efficiently handled cash transactions, including processing payments, giving change, and maintaining a balanced cash drawer. Demonstrated a high level of accuracy in counting and handling currency
* Demonstrated strong communication skills by greeting customers, answering questions, and providing product recommendations
* Handled customer complaints and resolved issues in a timely and professional manner
* Collaborated with team members to maintain a clean and organized checkout area, ensuring efficient and seamless operation

August 2020-August 2023 University of Florida Gainesville, FL

**Graduate Research Assistant - Human Informatics and Predictive Performance Optimization (HIPPO) Lab**

* Assisted in the development of machine learning algorithms used to evaluate EEG waveforms for cognitive state detection
* Developed a graphical user interface with MATLAB for usage by neurological intensive care (Neuro-ICU) hospital staff to annotate intracranial pressure waveforms within traumatic brain injury (TBI) patients
* Worked with large datasets containing patient/subject data
* Presented research concepts and results at various conferences
* Provided mentorship and supported undergraduate students in their research endeavors

January 2020-July 2020 Citel Miramar, FL

**Electrical Engineer/Printed Circuit Board Designer**

* Worked with engineering and production teams to develop and design printed circuit boards that met surge protection safety specifications and allowed production teams to be more efficient when building
* Provided quality inspections on various products to confirm building accuracy
* Completed the following technical tasks: soldering and modifying existing circuit boards
* Perform other duties as assigned

May 2019-August 2019 Citel Miramar, FL

**Electrical Engineer Intern**

* Developed prototype – diode terminal block
* Worked with engineering and production to develop and design printed circuit boards that met surge protection safety specifications and allowed production teams to be more efficient when building
* Provided quality inspections on various to confirm building accuracy
* Perform other duties as assigned

**PROJECTS**

**Poster Presentations**

June 2022, Gainesville, FL

* Horne, R; Stephens, C; **Prieto, J**; Olsen, W; Napoli, NJ. A Pilot’s Work of Breathing Assessment in High Altitude, Masked Environments. Breathing Research and Therapeutics Center Retreat

March 2022, Gainesville, FL

* **Prieto, J**; Horne, R; Napoli, NJ. Future Patient Biomarkers for Respiratory Compromise Leveraging Non-Sinusoidal Breathing. Neuromuscular Plasticity Symposium

**Oral Presentations**

July 2022, Gainesville, FL

* **Prieto, J**; Stephens, C; Kennedy, K; Napoli, NJ; Breathing rhythm complexity as an indicator to respiratory compromise for future flight deck systems. Neuromuscular Plasticity Nines

May 2022, Reno, NV

* **Prieto, J**; Stephens, C; Napoli, NJ. Breathing rhythm complexity as an indicator to respiratory compromise for future flight deck systems. Annual Aerospace Medical Association Scientific Meeting

August 2019 – December 2019 University of Florida Gainesville, FL

**Electrical Engineering Senior Design Project**

* Worked on a team to create musical instrument digital interface (MIDI) files via analog input from the pickups of a guitar
* Won third place in the final design competition

**LEADERSHIP, VOLUNTEER & INVOLVEMENT**

**VOLUNTEER**

January 2019 – May 2019 University of Florida Gainesville, FL

**Learning Assistant**

* Provided Calculus 2 support in classroom environments
* Assisted with Calculus 2 activities that capitalized on skills in identifying and addressing student difficulties with mathematical conceptual content

January 2016 – December 2018 University of Florida Gainesville, FL

**Private Tutor**

* Worked one-on-one with students who needed help in mathematics and science courses, such as Calculus 1, Calculus 2, Calculus 3, and Physics 2, free of charge

August 2011 – May 2015 Pembroke Lakes Optimist Pembroke Pines, FL

**Volunteer Coach**

* Coached elementary students on techniques of baseball
* Increased the total number of wins achieved by the team each season

**INVOLVEMENT**

January 2018 – May 2019 University of Florida Gainesville, FL

**Engineering Student Advisory Council, Electrical Engineering Representative**

* Cooperated with both the department heads and the Dean of the Herbert Wertheim College of Engineering to ensure positive experiences for undergraduate engineering students
* Cooperated and communicated with the representatives of twelve different engineering departments

**HONORS & AWARDS**

* August 2021 – August 2023: Breathing Research and Therapeutics (BREATHE) Pre-Doctoral Trainee,   
  University of Florida, Gainesville, FL
* 2021-2022 Summer: Research Fellow Air Force Research Laboratory (AFRL), 711th Human Performance Wing, Cognitive Science, Models, & Agents, Wright-Patterson Air Force Base, Dayton, OH
* 2020 Graduate School Preeminence Award, University of Florida, Gainesville, FL
* Third place, final design competition for electrical engineering senior design, University of Florida, Gainesville, FL
* Fall 2016- Spring 2019: Dean’s List for the Herbert Wertheim College of Engineering, University of Florida, Gainesville, FL