Lukas Kelk

347-977-0945 | kelklukas@gmail.com | [LinkedIn](#) | [Website](#)

Education:

Florida Polytechnic University | Lakeland, Florida *August 2021- Present*
Bachelor of Science in Computer Engineering| **GPA 4.0** *Expected Graduation 2025*

Work Experience:

Electric Distribution Engineering Intern | Duke Energy May 2023 – Present
- Designed distribution and service of power to customers
- Created a Python script for automating tasks, saving an average designer 80% of their time
- Engaged with customers to effectively communicate power solutions

Applied Mathematics Tutor | Florida Polytechnic University *December 2021- May 2023*
- Reinforcing student's Calculus and Trigonometry concepts
- Grading Calculus and Trigonometry homework
- Coordinating with professors to develop tutoring sessions

Projects:

EVI: Electronic Valve Instrument (Arduino/Verilog) May 2023 – Present
- Created a MIDI Instrument that plays like a traditional three valved trumpet
- Used knowledge of circuits to design an interactable instrument
- Future implementation to create custom firmware using Verilog

Real-Time Digital Stopwatch (Verilog/FPGA) | *Repository: [GitHub](#)* October 2022 - November 2022
- Used knowledge of Digital Logic to design a millisecond stopwatch
- The watch has a Start/Stop button that turns on and off the watch
- The watch displays milliseconds and starts at 00:00

Skills:

- Verilog HDL, C, C++, Multisim, MATLAB, Arduino IDE, BOUD, Maximo
- Breadboard, Arduino, Soldering, Raspberry Pi

Campus Clubs and Activities:

Music Association: Position: **President**
- Increased membership by 25%
- Strategic initiatives were implemented that improved the club's reputation

Florida Poly IEEE Student Chapter: Position**: Member**
- Currently prototyping an interactable wall of LED buttons (Poly-Pixel Wall)
- Working on and discussing engineering-related projects