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:

DPAC (Protection Automation and Controls) Engineering Intern | Duke Energy   May 2024 – Present
- Conducted protection coordination studies using CYME and GIS tools
- Reprogrammed, Tested and scoped Lateral Protection devices
- Made extensive use of Visual Basic to make functional applications

Distribution Engineering Intern | Duke Energy   May 2023 – May 2024
- Designed distribution and service of power to customers
- Created a Python script for automating tasks, saving an average designer up to 80% in 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:

Self-Playing Piano (AVR-C) | *Repository: [GitHub](#)*   January 2024 – May 2024
- Created a Paino that plays its self-using Digital Inputs
- Used knowledge of circuits to design a control circuit which controls a Piano IC
- Implementation of SIPO Shift Registers and Relays

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 | SIMULINK | Arduino IDE | Python
- CYME | CYMTCC | AcSELerator QuickSet | BOUD | SEDS | Poleforeman | Maximo |

Campus Clubs and Activities:

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