

Alexander Q. Kuzmicki

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ACTIVE SECRET CLEARANCE [Tier 3]

Education:

May 2022

Bachelor of Science in Electrical Engineering

University of Florida, Gainesville, FL

GPA: 3.44/4.0

Completed: Microprocessor applications, Intro to signals, Digital logic and computer systems, Circuits 1

In progress: Real time DSP, Foundations of DSP, Programming for ECEs 2, Circuits 2

Experience

Intern Northrop Grumman

May 2020 – August 2020

- Interned on Electronics and payloads comms strike IPT team
- Worked closely with engineering directors to develop the foundations to an aerial mesh network standard
- Developed tools to simulate mesh networks using miniNet, simulate network traffic using IPERF, and analyze recorded traffic using python
- Wrote Python scripts to analyze WireShark captures of a mesh network that extracted crucial data and created graphs to allow for easy understanding of the network's performance
- Took Agile training classes to improve project performance

Intern GE Aviation

May 2019 – August 2019

- Interned on the 777x cSoC Verification team
- Wrote test procedures in C that ensured the I2C and JTAG aspects of the GPM were operating within the requirements laid out by the FAA
- Ran and executed verification tests on the GPM
- Debugged and fixed non-functioning customer development kits that utilize the cSoC
- Wrote, managed, and ensured that problem reports that came up were resolved quickly

UF Machine Intelligence lab Member

August 2018 - Present

- Wrote firmware for motor control and data collection from a variety of sensors for CIMAR's Indy Go-Kart
- Worked on a multidisciplinary team of engineers to improve the capabilities of autonomous water vehicles
- Designed a PCB and wrote firmware that allows the CAN network bus on the sub to be broadcasted in an easy to read format via the Zigbee wireless standard to a handheld LCD board
- Designed a PCB board (System status) that utilized CAN to allow different systems in the sub to relay their current state to outside observers making debugging potential issues easier
- Designed PCB that monitored the internals of Subjugator for hull or cooling leaks, and was able to kill the vital electronics to prevent water damage

Intern Sun Stone Consulting, Harrisburg PA

May 2017 – August 2017

- Designed and developed a database table consolidation and comparison tool allowing easier access and quicker changes to large scale customer data files. (*Technologies SQL, MySQL, and Python*)
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Leadership Roles

President of the UF Archery team

August 2019- Present

- Managed a club of 45 active members
 - Oversaw club spending
 - Organized club practices
 - Worked with Rec sports liaison to ensure the club was operating in accordance to UF policies
 - Attended Leadership training
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Skills

- **Proficient in** *Java, C, C++, Python, SQL, PLSQL, Matlab, Quartus, Microsoft Office products, Altium, LTspice, Autodesk, miniNet, IPERF, SMI, inventor and Multi Sim CAD software*
- **Familiar with** *TI TIVA C series and ATMEL XMEGA AU microprocessors*