

Jaden Zwicker

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Objective

A highly motivated young professional working towards a degree in Electrical Engineering with experience in software and systems engineering. Specializing in systems engineering on large software projects resulting in a gain of contracts and maintaining current sustainment contracts. Seeking an internship over the summer semester of 2023.

Education

Kennesaw State University | Atlanta, GA

May 2020 – Present

Candidate for Bachelor of Science in Electrical Engineering, GPA: 3.9

Expected Graduation, May 2023

- Candidate for Minor in Mathematics
- Relevant Coursework: Circuit Analysis, Semiconductor Devices, Engineering Mechanics, Foundations of EE, Programming Problem Solving, Engineering Economic Analysis

Experience

Georgia Tech Research Institute | Atlanta, GA

May 2021 – Present

Systems/Software/Test Engineer Co-op

GTRI is a nonprofit applied research military defense contractor that produces \$660 million of research annually. ISO 9001

- Working in a small team of System, Software, and Test Engineers to develop and deliver software to our customers.
- Gaining experience in all three avenues of product development from customer requests to customer feedback and satisfaction while developing and testing in between.
- Following an Agile workflow with 2-week sprints all ending with tested software features being added to our baseline.
- Testing software builds with computer simulations as well as manually with hardware when automation is infeasible.
- Optimizing workflow by scripting components of the development and testing process to reduce time to product delivery.
- Generating test coverage reports to assure all elements of our software was vetted before flight testing or fielding.
- Developing and supporting new features for the countermeasures system on widely used military fighter jets working side by side with the U.S. Air Force.

Skills

Programming: Python, C, XML, Perl, HTML, CSS, Makefile, ADA, Java, C++

Hardware: Electronic warfare systems, MIL-STD-1553 data bus, ALQ-213, Oscilloscopes, Soldering, Multimeters

Software: Git, Jenkins, Atlassian Services, Excel, and other Military Applications

Projects

Dual Rail Variable DC Power Supply

February 2021

Electrical Engineering Department at Kennesaw State University

The goal of this individual project was to learn proper soldering techniques of electrical components onto a PCB board and receive practical experience with circuit analysis to allow for a variable power output.

- Soldered onto a PCB board: An Integrated Circuit, Diodes, LEDs, Terminal Blocks, Transistors, Resistors, Capacitors
- Designed a circuit from the given components to achieve a dual supply of 1.5V to 16V.
- Tested the constructed power supply using motors to determine if the circuit design was successful.

Leadership or Activities

Georgia Institute of Technology | Atlanta, GA

January 2021 – Present

Volunteer / Participant - [GT Neuro](#)

GT Neuro is a community of people working in or interested in neuroscience and neurotechnology. They provide weekly seminars by respected experts in the field on how they are advancing research and new developments in neuroscience.

- Attending many seminars involving using machine learning to social behaviors to analyze the brain.
- Helping with setup for seminars and supporting the program.