Andrew H. Rissler

1580 Lawton Ave Macon, GA 30321 | 404-457-7578 | arissler3@gatech.edu | US Citizen

Objective

Passionate, problem-solving second year computer engineer serving as the Data Acquisition lead for GT Off Road. Experienced camp-counselor and certified lifeguard with hundreds of hours of workplace experience. Tau Beta Pi member and GT Novice Rowing member. Wearer of many hats and possessor of many interests, I believe I am a well-rounded candidate for a CS and/or CE internship.

Education

Georgia Institute of Technology | Atlanta, GA   August 2023 – December 2026
B.S. in Computer Engineering, GPA 3.96 (102 applied credit hours)

Tau Beta Pi Honor Society Member   Inducted Spring 2024

Oglethorpe University |Atlanta, GA   August 2022 – May 2023
Dual-Enrolled Senior Year of Highschool, GPA 4.00

Skills

Programming: Java, Python, C#, C++, C, JavaScript, HTML, CSS, MIPS Assembly, ARM Assembly
Hardware: Arduino microcontrollers, SPI/I2C/UART/Analog Sensors, ADCs
Software: Visual Studio Code, Arduino, Quartus, Altium, Keil Vision 5

Experience

GT Off Road | DAQ Lead   September 2023 – Present

- Led comprehensive overhaul of entire DAQ team including:
    - Recruiting and training three new members
    - Programming a Teensy 4.1 to sample sensors at 10-20ksps (250x perf increase)
    - Writing python-based software to translate .bin data files to usable .csv files
    - Overseeing and helping develop our next gen Hive Mind data collection system
    - Overseeing the development of a fuel gauge sensor using the frequency shift of ultrasonic sound waves sent through gasoline
    - Began initial research into the development of a neural network to detect correlations in our hundreds of gigabytes of data
- Under my leadership DAQ has returned to its former glory, justifying our hefty budget and claim to our own shop space. We have gone from being ridiculed during the year before I took the helm to running one of the most sophisticated data collection operations in Baja SAE.

Camp Friedenswald | Cassopolis, MI   June 2022 – July 2024
Summer Counselor/Lifeguard

- Gained invaluable leadership and interpersonal skills through my work with children of all ages
- Learned to navigate complicated workplace dynamics and the importance of being ready for unexpected changes

Projects

Personal Website

- Built a personal website from scratch to showcase my academic and personal achievements
- (https://andrewbandrew05.github.io/AndrewPortfolio.github.io-main/HTML/OffRoad.html)

Quartus Memory Peripheral

- Built a memory extension device in VHDL for Digital Design Lab

Relevant Coursework

Digital Systems Design, Data Structures and Algorithms, Circuit Analysis, Digital Design Lab, Programming for HW/SW Systems, Intro to Signal Processing, Physical Foundations of Computer Engineering, Robotics and Autonomous Systems Topics, Embedded Systems Design