SAMUEL DIXON

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EDUCATION

Texas A&M University, College Station, TX *August 2019 - May 2023*
Undergraduate Electrical Engineering with Honors Overall GPA: 3.89

EXPERIENCE

Texas Instruments Test Engineering Intern June 2022 - Aug 2022

- Developed Visual Basic statistical methods to identify and prevent quality related incidents seen during semiconductor probing on UltraFLEX Teradyne Tester (ATE) for high volume device.
- Implemented the ideas into .dll library with C++ to improve availability across other testers.

Undergraduate Student Researcher February 2022 - May 2022

- Investigated group testing and tested limitation of theory in the context of food testing. Designed an android application to recover set of infected individuals and performed extensive simulations in python. Experimentally verified that pooled testing in sparse prevalence's of Salmonella Typhi can be used to reduce testing by 70 percent.

Undergraduate Peer Tutor Aug 2021 - May 2022

- Served as a mentor to help guide students towards academic success by peer teaching concepts, encouraging successful study habits, asking probing questions, and offering personal advice.

PROJECTS

Integer Arithmetic Improvement Program Android Studio, Java, C++, Makefiles

- This program was designed for users to improve mental arithmetic in addition, subtraction, and multiplication operations over a specified range. This project gave valuable insight in using C++ and makefiles, git, Android Studio, and Java to create a purposeful, education app.

555 Timer Oscillator Solder, Oscilloscope

- Constructed square wave function generator using a 555 timer IC and used to oscillate a led on and off. Project gave experience with soldering components together and consulting data sheets for documentation.

Dollar Cost Average Python, Pandas

- Used the yahoo finance package in python to experimentally test how different degrees of dollar cost averaging compares to lump sum investing for long term growth. Testing was done utilizing pickle files and the pandas python package.

ACTIVITIES

Hobby Jogger

- 3M Half Marathon 2019, Dallas Half Marathon 2020, BCS Marathon 2021