

SAMUEL DIXON

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EDUCATION

Texas A&M University, College Station, TX

Bachelor of Science

Honors Electrical Engineering

Minor in Computer Science, Mathematics

August 2019 - May 2023

Overall GPA: 3.89

EXPERIENCE

Undergraduate Student Researcher

February 2022 - May 2022

- Investigated group testing and tested limitation of theory in the context of food testing. Designed an 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 - Aug 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 dollar cost averaging to different degrees compares to lump sum investing for long term growth. This project gave valuable experience in working with python, pandas, pickle data files, and dollar cost averaging.

ACTIVITIES/AWARDS

Long Distance Running

BCS Marathon 2021, Dallas Half Marathon 2019

Ham Radio

Amateur Operator 2021