

AARON BABBER

aaron.a.babber@utexas.edu
(281) 203-4723

EDUCATION

The University of Texas at Austin, Austin, TX
Bachelor of Science in Computer Engineering
Bachelor of Science in Physics
Overall GPA: 3.52

May 2018

PROJECTS

- Developed a Python program using the PyVISA and matplotlib packages to read waveform data from a Tektronix oscilloscope, output the data in readable format, and generate a configurable plot on a user's computer
- Designed and implemented a *Space Invaders* remake using a Tiva C Series LaunchPad, programmed primarily using C code with hardware drivers written in ARM Thumb-2 assembly
- Wrote a Bash script to generate the running time of YouTube playlists by scraping text via Lynx then filtering out relevant data in Python

EXPERIENCE

Department of Physics, UT Austin, Austin, TX

Undergraduate Teaching Assistant

September 2015 – December 2015

- Reviewed lab descriptions to revise outdated instructions
- Held office hours to help students with report writing
- Assisted students during PHY 353L (Modern Physics Lab) class sessions

Freshman Research Initiative, UT Austin, Austin, TX

Undergraduate Research Assistant

January 2014 – December 2014

- Performed trials to create YBCO samples for use in superconductivity tests
- Optimized LabVIEW programs for experiments that determined cantilever properties
- Troubleshooted circuitry and software of nonoperational laboratory experiments

First Year Experience Office, UT Austin, Austin, TX

Learning Assistant

August 2014 – December 2014

- Held weekly office hours to facilitate students' understanding of material
- Assisted students with preparation of presentations and research papers

TECHNICAL SKILLS

Languages: Proficient in Python and C
Exposure to C++, MATLAB, VHDL, and ARM Thumb-2 assembly

COMMUNITY INVOLVEMENT

- Active Member, Natural Sciences Council
- Active Member, IEEE

HONORS

University Honors

Fall 2013, Spring 2015, Spring 2016