Alex Anderson

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Dallas, TX • Résumé current as of December 12, 2022

Academics

Texas A&M University, *College Station, TX* ..... 08/2019 - 05/2023
Bachelor of Science in Electrical Engineering, Minor in Computer Science (GPA: 3.89)
Relevant Coursework: Analog VLSI Design, Fiber and Integrated Optics, Electronic Circuits

Experience

Undergraduate Research Assistant, *Texas A&M University* ..... 08/2022 - Present
Analog and Mixed Signal Center: S. Palermo
- Design, verification, and measurement of a radiation-hardened optical transceiver in 180nm CMOS.
- Undergraduate thesis under University Research Scholars (URS) program.

Applications Engineering Intern, *Texas Instruments* ..... 06/2022 - 08/2022
High-Speed Signal Conditioning Group: Dallas, TX
- Created internally and externally published documentation over TI family of USB 2.0 redrivers.
- Provided support, review, and debugging for customer designs and layouts.
- Obtained lab measurements, compliance reports, and eye diagrams for redrivers, retimers, muxes.

Undergraduate Research Assistant, *Texas A&M University* ..... 02/2022 - 06/2022
Information Science Group: K. Narayanan, Microbiology and Food Safety: S. Pillai
- Developed unique experiments and testing schemes using group testing theory.
- Performed designed pooling experiments in a laboratory setting.
- Extensive simulation design in Python using packages including Scipy, Numpy, Matplotlib, Seaborn.

Publications and Presentations

Y.-L. Luo, C. Hong, **A. Anderson**, D. Dolt, and S. Palermo, "A Radiation-Hardened Optical Transceiver in 180nm CMOS Technology," accepted in *2023 Government Microcircuit Applications and Critical Technology Conference.*

J. Molina, **A. Anderson**, S. Dixon, K. Narayanan, and S. Pillai, "A Single Stage Pooling Scheme for Large-Scale Pathogen Detection," submitted to *Journal of Applied and Environmental Microbiology.*

A. Anderson and S. Dixon. Group Testing for Food Safety. Poster presented at: *Student Research Week, College Station, TX (2022).*

Skills

Software	Cadence Virtuoso, OrCAD, Allegro, LabVIEW, Linux, LaTeX
Programming	MATLAB, Python, C++ , HTML/CSS/Javascript
Lab Tools	Oscilloscope, Multimeter, Function Generator, Soldering

Honors and Awards

Texas A&M Engineering Honors, *College of Engineering* ..... 08/2019 - Present

Dean's Honor Roll, *College of Engineering* 05/2020, 12/2020, 05/2022

McFadden Scholarship, *Texas A&M University* 08/2019

Eagle Scout, *Boy Scouts of America* 12/2016