

# Alex Anderson

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Dallas, TX • Résumé current as of July 29, 2023

## Academics

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**Texas A&M University, *Electrical Engineering*** ..... M.S. Expected 05/2024  
Analog & Mixed-Signal Specialization  
Relevant Coursework: Analog VLSI Design, Digital IC Design

**Texas A&M University, *Electrical Engineering*** ..... B.S. 05/2023  
Analog & Mixed-Signal Specialization (GPA 3.88)  
Minor in Computer Science

## Experience

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**Analog Design Intern, *Texas Instruments*** ..... 06/2023 – 08/2023  
High-Speed Signal Conditioning Group: Dallas, TX

- Designed transmit architecture for 13.5 Gbps retimer including 3-tap FFE in 65nm CMOS.
- Verified design over PVT corners and HDMI/DisplayPort compliance requirements.
- Performed system-level simulations with S-parameter channel and connector models.

**Undergraduate Research Assistant, *Texas A&M University*** ..... 08/2022 – 05/2023  
Analog and Mixed Signal Center: S. Palermo

- Verification and measurement of a radiation-hardened optical transceiver in 180nm CMOS.
- Designed 6.25 Gbps optical receiver architecture for second generation test chip.
- Completed 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

- 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

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**A. Anderson**, "Design of a Radiation-Hardened Optical Transceiver," *Undergraduate Thesis*, Texas A&M University, Department of Electrical Engineering, Apr. 2023.

Y.-L. Luo, C. Hong, **A. Anderson**, D. Dolt, and S. Palermo, "A Radiation-Hardened Optical Transceiver in 180nm CMOS Technology," *2023 IEEE Nuclear & Space Radiation Effects Conference*.

## Skills

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<b>SerDes Design</b>	Wireline receiver/transmitter, optical receiver, CTLE, FFE
<b>Analog Design</b>	Op-amp, bandgap reference, LDO
<b>Software</b>	Cadence Virtuoso, Maestro, OrCAD, Allegro, LabVIEW, Linux, L <sup>A</sup> T <sub>E</sub> X
<b>Programming</b>	MATLAB, Python, C++ , Java, HTML/CSS/Javascript