

## Education

- 2019–2023 **Ph.D. in Computer Engineering**  
*Washington University in St. Louis*, St Louis, MO
- 2016–2018 **Masters of Science in Electrical Engineering**  
*Southern Illinois University Edwardsville*, Edwardsville, IL  
Thesis: Design and Analysis of a Multi-Channel Discriminator Integrated Circuit for Use in Nuclear Physics Experiments
- 2012–2015 **Bachelors of Science in Computer Engineering**  
*Southern Illinois University Edwardsville*, Edwardsville, IL  
Mathematics Minor

## Major Research Experience

Graduate Student, Washington University in St Louis (PI: Roger Chamberlain)

- Used machine learning to perform data analysis with cloud-based GPU and FPGA systems
- Conducted research into custom data acquisition systems for use in analyzing nuclear reaction experiments

Graduate Student, Southern Illinois University Edwardsville (PI: George Engel)

- Designed custom integrated circuit for precisely detection onset of radiation in a scintillator
- Designed test bench tools for modeling nuclear radiation striking scintillator detectors
- Taped out and tested integrated circuit for detecting radiation

## Presentations

### Oral Presentation

- Aug 2019 **CENTAUR Scientific Advisory Committee meeting**, Los Alamos National Labs,  
Design of a Multi-Channel IC for the Monitoring of Ionizing Radiation

### Poster Presentation

- Feb 2020 **Stewardship Science Academic Programs Symposium**, Washington, DC  
Multi-Channel Integrated Circuits for Use With Si-Strip Detectors
- Feb 2019 **Stewardship Science Academic Programs Symposium**, Albuquerque, NM  
Multi-Channel Integrated Circuits for the Detection and Measurement of Ionizing Radiation

## Teaching

### 2019 Graduate Teaching Assistant

*Washington University in St. Louis*  
Computer Systems Architecture I

Responsibilities: Graded assignments, quizzes, and exams. Held weekly office hours.

### 2018 Lecturer

*Southern Illinois University Edwardsville*  
Electronic Circuits I, Digital VLSI Design

Responsibilities: Graded assignments, quizzes, and exams. Held weekly office hours. Prepared and delivered weekly lecture material to 80 junior and senior level undergraduate students

## Professional Associations

- Institute for Electrical and Electronics Engineers
- Association for Computerized Machinery

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