

# RUSSELL H. KENNEY

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## EDUCATION

### University of Oklahoma, Norman, OK

BS in Computer Engineering, *Summa Cum Laude*, May 2019 – GPA: **4.0/4.0**

MS in Electrical and Computer Engineering, May 2020 – GPA: **4.0/4.0**

## RELEVANT COURSEWORK

- ▶ RF & Microwave Circuits
- ▶ Digital Signal Processing
- ▶ Radar Signal Processing and Imaging
- ▶ Control Systems Engineering
- ▶ Introduction to Communication Theory
- ▶ RF & Microwave Filter Design
- ▶ Random Signals
- ▶ Microwave Systems & Components

## WORK EXPERIENCE

### Advanced Radar Research Center - Norman, OK

*Graduate Research Assistant*, Spring 2018 - Present

- Designed digital back-end control system for Ku-band synthetic aperture radar
- C++, assembly, and LabVIEW programming for SAR system controller
- Optimized RF front-end for linearity and compatibility with digital back-end
- Used electromagnetic design software for design and fabrication of tunable microwave filters

### Sandia National Laboratories – Albuquerque, NM

*R&D Intern*, Summer 2019

- Design of Gallium Nitride (GaN) RF TX driver amplifier using Keysight ADS
- Developed automated testbed for RFIC characterization using MATLAB and RF test equipment

## PUBLICATIONS

**R. H. Kenney**, B. M. Sun, M. B. Yeary, H. H. Sigmarsson, J. W. McDaniel, “*Clock Incoherence in All-Digital Radar Back Ends*,” Government Microcircuit Applications and Critical Technology Conference (GOMACTech19), Albuquerque, NM, Mar. 2019.

**R. H. Kenney**, K. Konyalioglu, M. B. Yeary, H. H. Sigmarsson, J. W. McDaniel, " An All-COTS High Sampling Frequency Pulse-Doppler Imaging Radar," *2020 IEEE Radar Conference (RadarConf)*, Florence, Italy, Sept. 2020. (accepted)

## SKILLS

- ▶ RF Digital and Analog System Design
- ▶ Reconfigurable RF Filter Design
- ▶ Radar Signal Processing
- ▶ Programming in Java, C/C++, MATLAB
- ▶ LabVIEW CLAD Certification
- ▶ Embedded Systems
- ▶ Keysight Advanced Design System (ADS)
- ▶ National Instruments Microwave Office (MWO)
- ▶ ANSYS High Frequency Structure Simulator (HFSS)

## ACHIEVEMENTS

- ▶ OU President’s Honor Roll (2015-2019)
- ▶ OU Outstanding Senior in Computer Engineering (2019)
- ▶ IEEE Region 5 Student Paper Competition, 2<sup>nd</sup> Place for *Clock Incoherence in All-Digital Radar Back Ends* (2019)

## ORGANIZATIONS

**Eta Kappa Nu** – *Corresponding Secretary* (2018-2019), *Mentorship Coordinator* (2019-Present)

**IEEE MTT** – *Member* (2019-Present)