

## N. Cameron Matson

Southern Methodist University  
Department of Electrical and Computer Engineering  
Dallas, TX  
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(501) 516-1220

### 1. EDUCATION

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- Present     **Master of Science in Electrical Engineering**, Southern Methodist University, Dallas, TX  
Advisors: Dr. Joseph Camp, Dr. Dinesh Rajan  
*Anticipated Graduation: Spring '21*  
GPA: 4.00/4.00
- 2017     **Bachelor of Science in Electrical Engineering**, Southern Methodist University, Dallas, TX  
Minor in Computer Science  
**Bachelor of Science**, Southern Methodist University, Dallas, TX  
Major: Mathematics  
**Bachelor of Arts**, Southern Methodist University, Dallas, TX  
Major: Music  
GPA: 3.85/4.00, Cum Laude

### 2. PROFESSIONAL EXPERIENCE

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- Present     **Southern Methodist University, Dallas, TX**  
*Department of ECE, Wireless Research Group*, Research Assistant
- Fall '21     Teaching Assistant, Intro to Wireless Communication
- Summer '21     **Griffiss Institute, Rome, NY**  
Research Intern
- 2017 – 2020     **Texas Instruments, Dallas, TX**  
Feb. '19 – Oct. '20     *Battery Gauge Products*, Firmware Validation Engineer  
Feb. '18 – Feb. '19     *High Reliability Products*, Product and Test Engineer  
Summer 2017     *DLP (Digital Light Projection) Products*, Test Engineering Intern
- Summer '16 &  
Summer – Fall '15     **L3 Communications, Greenville, TX**  
Hardware Product Development Intern, Co-op
- 2014 – 2017     **Southern Methodist University, Dallas, TX**  
*Resident Life and Student Housing*, Resident Assistant  
*Altshuler Learning Enhancement Center*, Tutor
- Youth     **Matson Inc. (General Contractors), Little Rock, AR**  
Laborer, Son

### 3. SKILLS

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MATLAB, Python, C++, Linux, Machine Learning tools (TensorFlow, Keras, PyTorch), Software-Defined Radio (USRPS), GNU Radio, NI LabView/TestStand, Wireless Networks, Computer Vision, Image Processing, Lab Bench Testing, Experiment Design

#### 4. RESEARCH

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##### *I. Topics*

1. Air-to-air channel measurements and applications
2. Machine learning applications to wireless systems

##### *II. Conference Publications*

- 2022 M. Badi, **N. C. Matson**, D. Rajan, J. Camp, "Leveraging UAV Rotation To Increase Phase Coherency in Distributed Transmit Beamforming." to appear at IEEE CCNC.
- 2021 **N. C. Matson**, M. H. Syed, S. Song, D. Rajan, and J. Camp, "Effect of Antenna Orientation on the Air-to-Air Channel in Arbitrary 3D Space." IEEE WoWMoM 3rd Workshop on Wireless Networking, Planning, and Computing for UAV Swarms (SwarmNet).

#### 5. SELECTED COURSES TAKEN

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- 2021 Advanced Information Theory, Machine Learning and Neural Networks, Cryptography and Data Security, Statistical Pattern Recognition
- 2020 Advanced Drone Communications, Adaptive Algorithms for Machine Learning, Embedded Wireless Design Lab, Fundamentals of Computer Vision
- 2017 Algorithms, Optimization in Wireless Networks, Matrix Computation, Antenna and Radiowave Propagation, Communication and Information Systems, Machine Learning in Python, Topics in Digital Signal Processing
- 2016 Mobile Phone Embedded Design, Data Structures, Electromagnetic Fields and Waves, Microcontroller Architecture, Scientific Computing, Linear Algebra, Solid State Devices, Statistical Methods in EE

#### 6. HONORS AND AWARDS

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- 2021 SMU Research Days Competition Winner – ECE Category
- 2017 Pi Kappa Lambda (music honors society)
- 2015 Alpha Chi (academic honor society)
- 2014 Tau Beta Pi (engineering honors society)
- 2013 SMU Second Century Scholar  
SMU University Honors Program  
Eagle Scout