

# Emily King

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<b>EDUCATION</b>	<b>Master of Science in Electrical and Computer Engineering</b> University of Oklahoma GPA: 3.33	Expected Fall 2023
	<b>Bachelor of Science in Electrical Engineering</b> <b>Honors College Degree</b> Oklahoma State University, Stillwater, OK GPA: 3.5	May 2020
<b>THESIS</b>	<b>Miniaturizing the Quasi-Isotropic Low Size, Weight, &amp; Power Tag for Remotely Tracking Birds using Weather Radar</b> Research Advisor: Dr. Jessica Ruyle <ul style="list-style-type: none"><li>• Curve-Folded Dipole Antenna, operating at 2.85 GHz</li><li>• Integration with Hybrid RFID tracking device</li><li>• Desired bandwidth of 2.7 GHz – 3.0 GHz, WSR-88D network</li><li>• Designed and simulated in Ansys HFSS</li></ul>	Ongoing
<b>PROJECTS</b>	<b>Research – Miniaturize CFDA for SUAS</b> <ul style="list-style-type: none"><li>• Coauthored with Taylor A. Poydence, “Quasi-Isotropic Curved Folded Dipole”, to be submitted to <i>IEEE Antennas and Wireless Propagation Letters</i></li><li>• Strategically capacitively loading antenna structure to miniaturize physical size and maintain electrical length</li><li>• Analyze effects of miniaturization on radar detectable range, radiation patterns, and quality factor/bandwidth</li></ul> <b>Antenna Applications Symposium – 2022</b> Robert Allerton Park, Monticello, Illinois <ul style="list-style-type: none"><li>• Presented on the effects of capacitive loading on electrically small antennas</li></ul> <b>Antennas Final Project – TV Antenna</b> <ul style="list-style-type: none"><li>• Determine requirements to receive a minimum of 17 channels (received 70) broadcasted from Oklahoma City</li><li>• Circular, Log-Periodic Tooth Antenna</li></ul>	Ongoing  Fall 2022  Spring 2022
<b>EMPLOYMENT HISTORY</b>	<b>Air Force Civilian Service: PALACE Acquire (PAQ) Program,</b> 556 SWES/MXDPBB, 76 <sup>th</sup> SWEG, Tinker AFB <i>Electronics Engineer, GS-0855-11</i>	June 2020 – Present
	<b>Air Force Civilian Service: Premier College Internship Program,</b> 76 <sup>th</sup> SWEG, Tinker AFB <i>Student Trainee (Electronics Engineer), GS-0899-04</i>	June 2019 – August 2019
<b>SKILLS</b>	Ansys HFSS, Altium Designer, MATLAB, PADS Logic, PADS Layout, Autodesk Inventor, PSPICE, ADS	
<b>UNDERGRADUATE INVOLVEMENT</b>	Inducted into HKN Spring 2019, IEEE President 2019-2020, IEEE Secretary 2018-2019, Stout Hall Community Council, Honors College Student Association, Alpha Omega Epsilon 2016-2020, Cowboy Marching Band 2016	