

# Tyler Carr

<https://tylercarr.me>  
tycarr01@gmail.com

<b>EDUCATION</b>	<b>Embry-Riddle Aeronautical University</b> , Daytona Beach, FL, USA	
	M.S. in Software Engineering, 4.0 GPA	May 2024
	B.S. in Computer Science, 3.97 GPA, Summa Cum Laude	May 2023
<b>SKILLS</b>	Python, JavaScript, Node.js, React, HTML, CSS, Java, C, Django, Flask, SQL, MongoDB, Neo4j, Puppeteer, Selenium, Pandas, NumPy, Matplotlib, Plotly, Scikit-learn, TensorFlow, ElasticSearch, Git, SVN, Docker, Apache Airflow, Amazon S3, Jira	
<b>WORK EXPERIENCE</b>	<b>Garmin</b> , Olathe, KS	
	Software Engineer II	Dec 2025 – Current
	▪ Continued implementing features and maintaining software and configuration for G3000 Prime	
	Software Engineer I	May 2024 – Dec 2025
	▪ Implemented features and fixed issues in software adhering to DO-178C for OEMs for G3000 Prime	
	▪ Implemented UI designs and configuration adhering to OEM requirements on G3000 Prime	
	Software Engineer Intern	May 2023 – Aug 2023
	▪ Implemented ARINC 661 engine pages for the G3000 Archer Midnight integrated flight deck	
	<b>End to End Innovations</b> , Remote	
	Application Developer	Aug 2022 – May 2023, Aug 2023 – May 2024
	▪ Built an end user analysis tool using Django with project management and analysis features	
	▪ Applied machine learning algorithms for classifying movements and EKGs from sensor data	
	Data Science Intern	Apr 2021 – May 2022
	▪ Created a personalized newsletter using generated relevancy scores and location	
	▪ Built a search engine with Enterprise Search that ingests data via Airflow in support of AFRL	
	<b>Raytheon Technologies</b> , Largo, FL	
	Software Engineer Intern	May 2022 – Aug 2022
	▪ Investigated change requests for the Secure Comms CCSS project in support of the DRSN	
	▪ Wrote and updated automated tests using Robot Framework, Selenium, and Python	
<b>PROJECTS</b>	<b>Machine Learning for Antenna Design</b> , ERAU	2023 – 2024
	▪ Used machine learning to predict the best antenna geometry for desired performance with 73% accuracy	
	<b>ASR for ATC</b> , ERAU	2022 – 2024
	▪ Tuned and trained a machine learning model to transcribe live ATC audio to text	
	▪ Built an interactive map website to display transcription alongside live plane locations	
	<b>CourseVillain</b> , ERAU	2020 – 2022
	▪ Worked on an automated scraping & takedown system for copyrighted university content on Course Hero	
<b>PUBLICATIONS</b>	T. Carr, C. Martinez, E. A. Rojas-Nastrucci, M. I. Akbas, "Explainable AI-Aided Design for Antennas and Implementation on a Leaky Wave Antenna", 2026 (Submitted)	
	Z. Dixon, K. George, and T. Carr, "Catching lightning in a bottle: Surveying plagiarism futures", OLJ, vol. 25, no. 3, Sep. 2021.	
<b>AWARDS</b>	Outstanding Master's Student in Software Engineering, ERAU	2024
	Dean's List, ERAU	2019 – 2023
<b>LEADERSHIP EXPERIENCE</b>	ERAU Artificial Intelligence Club, President, Member	2019 – 2024
	ERAU ASR for ATC Senior Design Team, Student Mentor	2023 – 2024
	IEEE Eta Kappa Nu Honor Society, Member	2023 – 2024
	ERAU Computer Networks Class, Tutor	2023
	ERAU Artificial Intelligence Class, Teacher Assistant	2023 – 2024