

Corey Stewart

Citizenship: USA • coreystewart248@gmail.com • (706) 459 – 1934 • www.corey.info

Experience

Electromagnetic Simulation Engineer, Anyar Inc – Fort Walton Beach, FL July 2024 – Oct 2026

- Maintained Top Secret clearance while supporting radar, electro-optical, and infra-red system initiatives
- Performed research within secure facilities directly on or affiliated with Eglin Air Force Base
- Used Podman and Python to develop containerized machine learning pipelines
- Designed machine learning models to analyze images from a novel metalens-integrated optical system
- Prepared project reports and presented technical topics to customers and management

Graduate Research Assistant, Auburn University – Auburn, AL Oct 2020 – Apr 2024

- Researcher for the NSF Center for Advanced Vehicle and Extreme Environment Electronics
- Designed, manufactured, and tested additively manufactured environmental sensors for embedded systems
- Developed neural networks and Kalman forecasters to measure remaining useful life of embedded systems
- Worked within a US International Traffic in Arms Regulations (ITAR) lab environment
- Created learning materials for the detection and avoidance of counterfeit components (US DHS sponsored)
- Presented regularly to US government sponsors (e.g., Missile Defense Agency, Army, and Secret Service)

Community

Coordinator, STEM Workshop Series at Columbus State University – Columbus, GA 2022

- Coordinated a 12-week STEM experience for university students (funded by Southwest Georgia LSAMP)
- Instructed mathematics, computer science, electrical engineering, and machine learning topics

Education and Selected Coursework

University of West Florida – MS Computer Science 2027

- Parallel and Distributed Programming, Operating Systems and Networking, Data Mining

Auburn University – MS Electrical Engineering, Walt and Virginia Woltosz Fellow

- Radar Principles, Digital Signal Processing, Microelectronic Fabrication, Reinforcement Learning

Columbus State University – BS Mathematics with Computer Science minor

- Real Analysis, Robotics Programming 1 and 2, Abstract Algebra, Mathematical Statistics

Special Interests (Fall 2026)

OCUDU Technical Project

- Interested in private 5G/FutureG OCUDU stacked networks with reconfigurable intelligent surfaces
- OCUDU is an open-source 5G and beyond CU/DU project [<https://www.ocudu.org>]

High-Performance Computing (HPC)

- Developing HPC programming skills through MS Computer Science coursework
- Gained hands-on HPC experience using the San Diego Supercomputer Center's Expanse cluster

FPGA Programming

- Exploring FPGA development using a Digilent Nexys A7 board
- Studying *The FPGA Programming Handbook*, 2nd ed., by Frank Bruno and Guy Eschemann

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Professional Development

Infrared Detector Fundamentals | 3 Days (on-site) Eglin Air Force Base, 2026

REEF BOT-102 | 6 Weeks (hybrid) University of Florida, 2025

- 3D Sensing, Clustering, NVIDIA Jetson Orin, VTK and Qt, Point Cloud Library, ROS 2.0

Microsoft Azure Machine Learning Training | 3 Days (on-site) Microsoft, 2025

RF Fundamentals | 1 Day (on-site) Rohde & Schwarz, 2025

- Included Introduction to Radar and Electronic Warfare

Radar Modeling with AFSIM | 11 Weeks (on-site) Anyar Inc, 2024

Coursera.org Specializations

Mathematics for Machine Learning and Data Science | 3 Courses DeepLearning.Ai, 2024

Machine Learning Specialization | 3 Courses Stanford Online, DeepLearning.Ai, 2022

- (Un)Supervised Machine Learning, Advanced Learning Algorithms, Reinforcement Learning

Deep Learning Specialization | 5 Courses DeepLearning.Ai, 2021

- Convolutional Neural Networks, Hyperparameter Tuning, Sequence Models, Optimization

IBM Data Science Professional Certificate | 9 Courses IBM, 2020

- Python, Data Science, Data Analysis and Visualization, SQL, and Machine Learning

Coursera.org Courses

Essential Google Cloud Infrastructure: Foundation Google Cloud, 2022

Intro to Electronics, DC Analysis, and AC Analysis | 3 Courses Georgia Institute of Technology, 2020

Selected Technical Study

Technical courses and resources used for ongoing study, skill development, and reference:

First Principles of Computer Vision	Columbia University
FPGA Design for Embedded Systems	University of Colorado Boulder
GPU Programming	Johns Hopkins University
Microwave Engineering and Antennas	Eindhoven University of Technology
RF and Millimeter-Wave Circuit Design	Eindhoven University of Technology