

Corey Stewart

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Experience

Electromagnetic Simulation Engineer, Anyar Inc - Fort Walton Beach, FL July 2024 - Present

- Supported radar, electro-optical, and infra-red system initiatives ranging from CUI to Top Secret levels
- Performed day-to-day responsibilities in secure facilities directly on or affiliated with Eglin Air Force Base
- Developed project solutions using Python, Microsoft Azure, GitLab, MATLAB, NVIDIA Jetpack, and more
- Advanced progress and development of a plugin to integrate AFSIM with FLITES
- Designed machine learning models to analyze images from a novel optical system that utilizes metalenses
- Regularly wrote reports and presented technical topics and project progress 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
- Machine learning, semiconductor fabrication, and additively manufactured electronics were my focuses
- Designed, manufactured, and tested additively manufactured environmental sensors for embedded systems
- Regularly operated inkjet, direct write, screen, and gravure offset printing equipment
- Developed neural networks and Kalman forecasters to measure remaining useful life of embedded systems
- Performed daily work within a U.S. International Traffic in Arms Regulations (ITAR) lab environment
- Created learning materials for the detection and avoidance of counterfeit components (US DHS sponsored)
- Presented updates to US government agencies (e.g., Missile Defense Agency, Army, Secret Service, etc.)

Junior Engineer Intern, Reliant Technologies – Huntsville, AL Sept 2022 – Feb 2023

- Utilized Microsoft Azure to lay groundwork for a cloud-based sensor management application
- Supported my team's data analytics efforts by introducing and programming Plotly Dash dashboards

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 topics in mathematics, computer science, electrical engineering, and machine learning
- Organized guest speaker sessions (speakers sourced from industry, academia, and defense sectors)

Continuing Education

REEF BOT-102, University of Florida Research and Engineering Education Facility 2025

- Skills: ROS 2.0, Nvidia Jetson Orin, Visual Toolkit, Qt, Point Cloud Library, 3D sensors, CUDA

RF and millimeter-Wave Circuit Design, Eindhoven University of Technology by Coursera 2024

- Skills: Wireless Systems, Amplifiers, Mixers, Oscillators, Synthesizers

Machine Learning Specialization, Stanford and DeepLearning.AI by Coursera 2022

- Skills: Supervised, Unsupervised, and Reinforcement Learning, Dimensionality Reduction, Random Forests

Education

University of West Florida – MS Computer Science 2027

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

Columbus State University – BS Mathematics with Computer Science minor