Corey Stewart

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Education

Auburn University – MS in Electrical Engineering, Walt and Virginia Woltosz Fellow — May 2024
Columbus State University – BS in Mathematics with Computer Science minor — Dec 2019

Experience

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

- Supporting several radar related initiatives for maritime and aerial environments from the Department of Defense (DoD) CUI to TS level
- Utilizing Python, Git, cloud-based solutions, containerization, and proprietary software solutions of the DoD

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

- Conducted machine learning, semiconductor manufacturing, and additively manufactured electronics research as a researcher for the NSF Center for Advanced Vehicle and Extreme Environment Electronics
- Designed humidity, temperature, strain, and ammonia sensors using AutoCAD, KiCAD, and FreePCB
- Additively manufactured environmental sensors using inkjet, direct write, screen, and gravure offset printing equipment from ChemCubed, SUSS MicroTec, Voltera, Manncorp, and Seria Corporation
- Performed statistical analyses of environmental sensor characteristics after manufacture and during experimental performance evaluations using Python, MATLAB, and Microsoft Excel
- Developed circuitry and interfacing algorithms for environmental sensors adapted to rigid and flexible embedded platforms including Arduino microcontrollers and NextFlex's flexible Arduino variant
- Developed neural networks and Kalman forecasters using Python and MATLAB to measure remaining useful life of embedded systems utilizing environmental sensors manufactured in the research center
- Operated within a U.S. International Traffic in Arms Regulations (ITAR) controlled lab environment
- Researched and created educational course materials as part of a US Department of Defense agency's initiative focused on the detection and avoidance of counterfeit electronic components
- Frequently communicated with and presented updates to US Department of Defense agencies and its contractors including the US Missile Defense Agency, US Secret Service, US Navy, and US Army
- Instructed junior colleagues on principles related to additively manufactured electronics, counterfeit electronic detection, semiconductor manufacturing, and safe use of laboratory equipment

Community Efforts

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

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

Certificates

Machine Learning Specialization by Stanford and DeepLearning.AI — Coursera 2022
Deep Learning Specialization by DeepLearning.AI — Coursera 2021
Data Science Professional Certificate by IBM — Coursera 2020
Machine Learning by Stanford — Coursera 2020