

# Corey Stewart

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## Quick Notes

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- Security Clearance Status: Current
- Passed Fundamentals of Engineering Exam - Electrical (applied for E.I.T.)
- Open to Relocation

## Education

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

## Experience

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- Graduate Research Assistant**, Auburn University - Auburn, AL Oct 2020 - Apr 2024
- Conducted machine learning, semiconductor packaging, counterfeit electronics detection, and additively manufactured electronics research within an International Traffic in Arms Regulations (ITAR) restricted division of Auburn University's NSF Center for Advanced Vehicle and Extreme Environment Electronics (CAVE3)
  - 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
  - Additively manufactured environmental sensors using conductive inks and industrial manufacturing platforms from ChemCubed, SUSS MicroTec, Voltera, Manncorp, and Seria Corporation
  - 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 systems being monitored by additively manufactured environmental sensors
  - Created educational course materials and interactive laboratories supporting the detection and avoidance of counterfeit electronic components for a prominent government agency
- Junior Engineer Intern**, Reliant Technologies - Huntsville, AL Sept 2022 - Feb 2023
- Utilized Microsoft Azure to develop the groundwork for a cloud-based sensor management application and programmed Plotly Dash dashboards to support my team's data analytics efforts

## Community Efforts

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- 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

## Industrial and Laboratory Equipment

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Decapsulation (Nisene JetEtch Pro), Environmental Chambers (Thermotron), Laser (LPKF U4), Photo-sintering (Xenon)

## Highlighted Certificates

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