Kevin Trujillo

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SKILLS

HFSS 3D Modeling

MATLAB programming

Familiarity with: Python, C++, HTML/CSS

ADS Schematic and Layout

Visio Diagrams

Measurement Equipment

Docker

Excellent communication

Flexible

Quick thinker

Problem solving

EDUCATION

BACHELOR'S DEGREE
Kennesaw State University
2020 – 2024

FULLSTACK WEB DEVELOPMENT
Coding Bootcamp
MAR 2025 - PRESENT

OBJECTIVE

Recently graduated Electrical Engineer with an active security clearance seeking entry level position where I can apply my skills and contribute to organizational growth.

PROFESSIONAL EXPERIENCE

STUDENT INTERN   JAN 2023 – DEC 2024
Georgia Tech Research Institute - SEAL

My experience at GTRI SEAL lab include:

- Developed test plans and conducted measurements to characterize the performance of various devices including cables, switches, attenuators, splitters, and amplifiers using Network Analyzers and Spectrum Analyzers to ensure they met performance requirements.
- Modeled different antenna topologies such as bowtie and sinuous antennas and optimized their performance by conducting parametric sweeps to enhance performance. Helped design a wide band matching network to ensure consistent performance over a wide frequency range in ADS and HFSS.
- Contributed to the optimization of connectors to minimize losses and improve signal integrity in HFSS.
- Imported HFSS geometry into ADS 2D layout for the creation of boardhouse models to manufacture the design.
- Utilized MATLAB for the processing and analysis of S-parameter data.
- Automated tests, including 3rd order intercept and 1dB compression, using MATLAB Instrument Control Toolbox and SCPI commands.
- Employed Python for image processing tasks, extracting text from images and organizing data into readable Excel files.
- Created wire diagrams to show the interconnection of various components in Visio.

PROJECTS
School or Personal

My personal projects and coursework include:

- Courses include Electromagnetics, Communication Systems, Embedded Systems, and Antenna Design, with hands-on experience in GNU Radio flowcharting and SDR implementation as part of the senior design project.
- Currently learning front-end web development (REACT, JavaScript, HTML/CSS).
- Used Drupal to create the layout of a multi-page website with custom: webforms, layout, and actions.
- Creating 3x3 keypad with switches and diodes which interface with an esp32. The code is written in C++