

# CRISTIAN SALITRE

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## EXPERIENCE

**Honeywell**  
*Software Engineer / Advanced Application Engineer*

Charlotte, NC  
September 2025 – Present

- Developing and debug firmware-based applications. Work within a diverse team focused on updating and maintaining legacy tools to align with current industry technologies and standards.
- Develop solutions to integrate our products into customer platforms. Assist customers in all stages of product cycle, and deployment.
- Introduce and adopt new/trending technologies that are used in the industry, to help obtain new business opportunities.

**Honeywell**  
*Software Engineer Intern*

Charlotte, NC  
June 2025 – August 2025

- Integrated Allied Vision smart camera with vision software using the Vimba X SDK; experimented with vision-language models (VLMs) like Ollama.
- Evaluating the NXP i.MX93 SoC for customer platform integration; analyzing Zephyr OS support and camera interface compatibility.

**Oxit**  
*Embedded Software Engineer Intern*

Charlotte, NC  
March 2025 – June 2025

- Implemented visual dashboard on ESP32-S2/S3 Feather TFT for LoRaWAN/Sidewalk dual-connectivity application, displaying real-time connection status, protocol modes (BLE/FSK/CSS), signal measurements (RSSI/SNR), and sensor data to replace serial monitor dependency.

## SKILLS

<b>Protocols &amp; Interfaces</b>	I2C, SPI, UART, SWD, MIPI-CSI, LoRaWAN
<b>Platforms &amp; OS</b>	ARM Cortex-A55/M33, Ti-MSP430, ESP32, Zephyr RTOS, Linux
<b>Languages</b>	C/C++/C#, Python, MATLAB, Bash
<b>Tools</b>	Git, PyTorch, OpenCV

## PROJECTS

### Asset Tracking and Anti-theft System

- Developed dual-core ESP32-S3 firmware application using ESP-IDF with real-time I2C peripheral control, BLE communication, and interrupt-driven security breach detection system.
- Co-designed 2-layer PCB in Altium Designer with size and cost optimization. Successfully delivered complete system PoC to industry sponsor DP Containers following year-long development cycle.

## EDUCATION

**North Carolina State University**  
*Master of Science in Electrical Engineering – Signal Processing & Computational Intelligence*

Raleigh, NC  
Expected – May 2027

**University of North Carolina at Charlotte**  
*Bachelor of Science in Computer Engineering – ML Concentration*

Charlotte, NC  
December 2024