

CRIStIAN SALITRE

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EXPERIENCE

Honeywell <i>Software Engineer / Advanced Application Engineer</i>	Charlotte, NC September 2025 – Present
<ul style="list-style-type: none">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 <i>Software Engineer Intern</i>	Charlotte, NC June 2025 – August 2025
<ul style="list-style-type: none">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 <i>Embedded Software Engineer Intern</i>	Charlotte, NC March 2025 – June 2025
<ul style="list-style-type: none">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

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

PROJECTS

Asset Tracking and Anti-theft System	
<ul style="list-style-type: none">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.	
	Raleigh, NC Expected – May 2027

EDUCATION

North Carolina State University <i>Master of Science in Electrical Engineering – Signal Processing & Computational Intelligence</i>	Raleigh, NC Expected – May 2027
University of North Carolina at Charlotte <i>Bachelor of Science in Computer Engineering – ML Concentration</i>	Charlotte, NC December 2024