

Erlan Rangel Garro

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📍 San José, Costa Rica

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Work Experience

Sysco, Costa Rica

July 2024 – Present

Software Engineer

Lagunilla, Alajuela

- Software development for the Topshelf and BT Specialty Meat and Seafood divisions.

Teradyne, Costa Rica

May 2019 – July 2024

Supply Line Engineer

Coyol, Alajuela

- Engaged collaboratively with contract manufacturing partners to comprehensively assess and incorporate solutions for supplier quality concerns.
- Spearheaded initiatives for containment and effective corrective actions, ensuring uninterrupted customer shipments and upholding the highest standards of product quality.
- Played an integral role in shaping and optimizing supplier development approaches, proactively driving targeted endeavors with suppliers to consistently enhance their operational performance over the course of my tenure in the supply chain domain.

Teradyne, Costa Rica

June 2018 – May 2019

Commodity Support Engineer

Coyol, Alajuela

- Led the coordination of various internal processes within the SBM group to ensure smooth operations and timely delivery of projects.
- Oversaw the development and implementation of process improvement initiatives to enhance efficiency and productivity.
- Led the successful migration of Universal Robots' Bill of Materials (BOM) to Teradyne, ensuring accuracy and completeness throughout the process.
- Developed and implemented a comprehensive maintenance plan for the BOM, ensuring that all necessary updates and changes were made in a timely manner.

Teradyne, Costa Rica

May 2017 – June 2018

RoHS coordinator

Coyol, Alajuela

- Maintain materials certification documentation, RoHS product roll-out, certification and DFM properties for Teradyne's approved vendor list.

Education

Universidad CENFOTEC

2022 - Present

BS, Software Engineering.

San José, Costa Rica

Universidad Técnica Nacional

2019 (Completed)

BS, Electronics Engineering

Alajuela, Costa Rica

Others

SCRUMstudy

2024

Scrum Fundamentals Certified

PXS School of Excellence

2022

Complete Certified Supplier Quality Professional course.

Udemy

2021

Machine Learning in Python and R.

Projects

SICA - Sistema de control de activos. (Academic project)

- **Description:** Development of a web application for asset management for a fictitious company using technologies like HTML5, CSS3, JavaScript, and a MariaDB database.
- **Course:** Software Project #1.

SIMEPCI – Sistema Médico de Pacientes y Citas. (Academic project)

- **Description:** Design, development, and deployment of a medical application for patient appointment management in a simulated hospital environment. The application was implemented using cutting-edge technologies such as SQL for database management, .NET Core for server-side programming, ASP.NET for front-end development, and Microsoft Azure for code storage and application deployment following the SCRUM methodology.
- **Course:** Software Project #2.

Lazy RM.

- **Description:** Developed a Python application to streamline the supply chain risk assessment process for Teradyne Inc. This application automates data collection and analysis, risk identification, and report generation, reducing the manual workload and time investment required.
- **Achievements:** Reduced time spent by participants in the risk assessment process by 80%.

Semiconductor Lifecycle Information Search Engine

- **Description:** RESTful API project aimed at facilitating the retrieval of lifecycle information for specific semiconductors. It serves as a comprehensive search engine tailored to Teradyne's need, allowing users to access crucial data efficiently. The backend is developed using Spring Boot, while the frontend is powered by the NextJS framework.
- **Achievements:** Users can navigate through a vast database of semiconductor lifecycle information with ease, streamlining research processes and enhancing productivity in semiconductor-related projects.

Bluecpprint

- **Description:** CLI utility to create new C++ projects with a predefined structure built in Go.

Skills & Abilities

- **Languages:**
 - Spanish [native], English [B2+ (BELT test achievement)]
- **Soft skills:**
 - Adaptable and very responsible. Excellent communication skills, proactive, capable of working under pressure.
- **Other programming skills:**
 - Proficient in Bash and LUA scripting.
 - Skilled in various object oriented programming languages including C/C++ and Java.
 - Familiarity with hardware description languages, including Verilog and VHDL. Utilized Xilinx's Vivado design suite for synthesizing and analyzing HDL designs.
 - Experienced in version control using Git and platforms like GitHub/Bitbucket. Contributed to open-source projects and effectively collaborated with team members on various projects.
 - Over 5 years of experience using a rolling release distribution of Linux (Arch) as my primary operating system.
 - Proficient in troubleshooting, file management, system configuration, and task automation in any Linux distribution.