

JORGE TRUJILLO SALAZAR

EMBEDDED SOFTWARE ENGINEER



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Primaveras 686, Villa de
Álvarez, Colima.

TECHNICAL KNOWLEDGE

C	IMS	DaVinci Dev	React
Microcontrollers	Rhapsody	DaVinci Conf	Node JS
Matlab	GIT	Development AI	Next JS
IDEAS	SourceTree	Javascript	SQL
STM32 Cube IDE	Python	HTML	
WinIDEA	Beyond compare	CSS	

EXPERIENCE

OCT 2021 - MAY 2025 | EMBEDDED SOFTWARE ENGINEER AT CAPGEMINI

- **Software Design and Development:** Design and implementation of C code, following automotive quality processes like A-SPIICE.
- **Requirements Management and Architecture Design:** Analyzed and defined system and software requirements using Doors software, and designed system and software architecture with tools like AUTOSAR.
- **Communication Protocols:** Implemented communication between sensors and microcontrollers using CAN, I2C, SPI, and LIN protocols. Managed CAN databases to locate required messages and signals.
- **Testing and Debugging:** Performed white-box testing with WinIDEA and created unit tests using SWATT. Identified and resolved issues during testing using CANoe.
- **Agile Methodologies:** Experience working with Scrum and Agile methodologies for project and team management.
- **Software Integration and Testing:** Developed and executed automated tests with CANoe, including creating and updating panels and CAPLs to meet software requirements.
- **Version Control and Automation:** Utilized GIT for version control, and developed automation scripts in Shell and Python for various tasks and integration testing.
- **Long-Term Software Testing:** Conducted integrity testing of code, validated its functionality in test environments, and loaded software for long-term performance checks.
- **Security and Verification:** Created automation scripts for encrypted file signing to ensure software security.

SCHOOL

GRADE: BACHELOR IN MECHATRONICS

SCHOOL: TECNOLÓGICO DE COLIMA

DATES: 2016 - 2021

COURSES

VECTOR

Vector Certified Embedded Associate - AUTOSAR Classic
2023

THE COMPLETE FULL-STACK WEB DEVELOPMENT BOOTCAMP

Udemy - 2025

PYTHON DATA SCIENCE & MACHINE LEARNING

Udemy - 2025

C PROGRAMING COURSE

Hackerank - 2021