

# **Víctor Alejandro Mijares Aldaco.**

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## **PROFESSIONAL SUMMARY**

Senior Test & Validation Engineer with 7+ years of experience in automotive systems and embedded software validation for global OEMs including Ford, GM, and Stellantis. Expert in leading end-to-end system validation cycles—including sanity, functional, regression, and automation—with a deep focus on CAN and LIN network analysis using CANoe. Specialized in validating next-generation ECUs such as Instrument Panel Clusters (IPC), HUD, and LiDAR systems (Short/Long Range), ensuring 100% requirements traceability via IBM DOORS. Proven track record in Agile environments, defect management, and cross-functional collaboration with global engineering teams to deliver high-quality automotive technologies.

## **TECHNICAL SKILLS**

**Testing & Validation:** Functional Testing, Regression Testing, Black-Box Methodologies, Sanity Testing, Exploratory Testing, Test Case Design, and Test Automation.

**Automotive Protocols & Networks:** CAN, LIN, ECU Communication Simulation, Diagnostics, and Error Injection.

**Engineering Tools:** CANoe, Vector CAN Tools, IBM DOORS (Requirements Traceability), JIRA, Confluence, MKS.

**Languages & Scripting:** Python (scripting)

**Hardware & Systems:** Instrument Panel Cluster (IPC), Head-Up Display (HUD), Body Control Module (BCM), LiDAR (Short & Long Range), and Automotive ECUs.

**Methodologies:** Agile/Scrum, Requirements Traceability (End-to-End), Defect Management (JIRA), and Competitive Benchmarking.

## **WORK EXPERIENCE**

### **Automotive System Test Engineer**

Capgemini Engineering June 2018 – Present

- **End-to-End Validation:** Led full-cycle system validation (sanity, functional, regression, and automation) for major OEMs like Ford, Stellantis, and GM, ensuring 100% compliance with strict automotive quality standards.
- **Requirements Traceability:** Achieved 100% traceability between complex customer requirements and system test specifications using IBM DOORS, minimizing gaps in software coverage.
- **Network Analysis & Simulation:** Performed advanced CAN/LIN network analysis and created simulation setups in CANoe for ECU communication, diagnostics, and error injection scenarios to validate robust fail-safe behaviors.
- **Specialized ECU Validation:** Validated critical next-generation components, including Instrument Panel Clusters (IPC), HUD, and both Short/Long Range LiDAR, ensuring seamless feature integration and messaging accuracy.
- **Global Collaboration:** Partnered with cross-functional teams across global locations to diagnose complex defects, significantly reducing turnaround time for software fixes through detailed technical reporting in JIRA.
- **Strategic Benchmarking:** Conducted competitive benchmarking studies to analyze feature implementations across different OEMs, driving data-backed improvements for customer-targeted functionalities.

### **Pega Developer**

Rulesware LLC Oct 2017 – May 2018

- Developed Pega PRPC components including case flows, decision rules, UI elements, and integrations based on customer business requirements

- Collaborated with stakeholders to gather requirements and translate workflows into scalable, maintainable Pega solutions
- Troubleshoot defects and optimized application performance across multiple Agile sprints
- Supported deployment activities and ensured smooth delivery through cross-functional coordination

### **IT Developer / Engineer II**

HPQ Dec 2016 – Oct 2017

- Enhanced and maintained the Aurora Dashboard to improve monitoring of HPIL inbound/outbound data flows
- Resolved data quality issues by analyzing logs, validating transactions, and implementing corrective logic
- Collaborated with integration and business teams to stabilize dashboard operations and improve reporting accuracy
- Delivered features and fixes within Agile ceremonies, ensuring alignment with product owners

### **Software Developer**

IBM Dec 2015 – Dec 2016

- Developed web, iOS, and Android components for a Cognitive Health Care platform using Bluemix and Watson APIs
- Built backend and frontend modules, improving application responsiveness and cloud integration
- Optimized database structure to support performance improvements and new healthcare features
- Participated in OpenStack CUCEA Living Lab by installing and configuring Nova, Swift, Keystone, Neutron, and other cloud services

### **IT Support Engineer**

NaturaExtracta Oct 2014 – Feb 2015

- Managed IT infrastructure including network equipment, servers, and end-user devices
- Delivered technical support and troubleshooting to maintain high availability of business systems
- Conducted routine maintenance, backups, and system monitoring to improve reliability and security
- Implemented small-scale IT improvements to enhance system performance and reduce manual effort

## **EDUCATION**

Instituto Tecnológico y de Estudios Superiores de Occidente (ITESO)  
Bachelor of Science in Computer Systems Engineering.

## **LANGUAGES**

**English:** Professional Proficiency

**Spanish:** Native