**EDUARDO LARIOS CRUZ**

**EMBBEDED SOFTWARE DEVELOPER / MODEL BASED DEVELOPER**

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I’m a passionate fast learner **embedded software developer** with **4 years of experience on the Automotive industry**, 1- year experience as a **Jr. Embedded C developer** (Hand-coding) and 3+ year experience as **Model Based Developer** with **MATLAB’s Stateflow** and **Simulink** for automatic **C/C++** code generation using **dSPACE TargetLink** for **Automotive** embedded systems on **AUTOSAR** architecture, open to communication, able to participate efficiently in the development of projects through the application of knowledge and skills providing a high sense of creativity, responsibility, and commitment.

**EXPERIENCE**

JULY 2020 – TODAY

 **Jr. Embedded C developer, *DANLAW INC. working on site at CONTINENTAL***

**Responsibilities:**

* C/C++ coding for Vehicle function software development and DTC implementation on AUTOSAR architecture.

JANUARY 2020 – JUNE 2020

 **Model based developer, *DANLAW INC. working on site at CONTINENTAL***

**Responsibilities:**

* Maintain and update software application models for generating C/C++ code using embedded coder for AUTOSAR software with Matlab´s State Flow and Simulink.
* Develop simulation environment on Matlab for Model in the loop testing.
* Perform Sanity check and unit testing using test bench and CANoe for software performance testing.
* Debugging and bug fixing on software defects using winIDEA/testIDEA and Vector’s CANoe.

SEPTEMBER 2017 – DECEMBER 2019

 **Model based developer, *MARELLI MEXICO***

**Responsibilities:**

* Generate C/C++ code using dSPACE Targetlink for AUTOSAR.
* Develop software application´s models according to System Requirements using Matlab´s State Flow and Simulink.
* Perform Model in the Loop simulation to validate model´s performance.
* Compile, debug, sanity check and unit testing performed on bench using Renesas CS+ IDE, Vector’s CANalyzer and CANoe.

FEBRUARY 2016 – AUGOST 2017

 **Jr. Android Developer, *POMOCA VIRTUAL (START-UP)***

JULY 2010 – JANUARY 2016

 **Offshore Engineer, *OIL & GAS INDUSTRY WORKING AS CONTRACTOR ON PEMEX FACILITIES***

**ACADEMIC HISTORY**

JANUARY 2006 – JUNE 2010

**Bachelor’s degree in Mechatronic Engineering, *National’s Polytechnical Institute, Engineering and Advanced Technologies Interdisciplinary Professional Unit (Unidad Professional Interdiciplinaria en Ingeniría y Tecnologías Avanzadas del Instituto Politécnico Nacional, UPIITA IPN) -Mexico’s University-***

**Web site:** <https://www.upiita.ipn.mx/>

**TOOLS AND PROGRAMMING LANGUAGES:**

Rational Team Concert (2 years of experience) · Rational DOORS (2 years of experience) · CS+ · CANalyzer (2 years of experience) · CANoe (1 years of experience) · dSPACE TargetLink (2 years of experience) · Davinci Configurator (1 years of experience) · Davinci Developer (1 years of experience) · C/C++ (5+ years of experience) · Matlab (Stateflow, Simulink and Scripting) (5+ years of experience) · Python3 (basic knowledge) · JAVA for Android development (1 years of experience) · Android Studio (1 years of experience) · AutoCAD (7 years of experience) · Solidworks (4 years of experience) · Eagle (basic knowledge) · PCB Wizard · VHDL · Linux (basic knowledge) · Assembler (basic knowledge)

**LANGUAGES:**

**English:** Professional competence · **Italian:** Basic competence · **Spanish:** (Mother tongue)