Enelson Castro

Address: Michigan, USA. | **Phone:** 786-503-9074 | **Email:** enelson.castro@gmail.com

Curious coder with a passion for the terminal and scripting languages in embedded systems.

Skills

Front End	Back End	DevOps	Platforms	Database
HTML/CSS	Python/PHP	Git/Github	Android	MySQL
Javascript/Typescript	Java/Kotlin	AWS/Docker	Linux/Windows	GraphQL
React Native	C/C++	ETM/DOORS	AUTOSAR	CAN/LIN

Professional Experience

Embedded Software Engineer at Continental Engineering Services |Auburn Hills, Michigan, USA.
November 2021 - May 2024

▷ Digested requirements using DOORS and converted them into actionable tickets in JIRA which implement new features in an AUTOSAR project.

▷ Constructed and executed software unit tests using SWATT tool and functional test using Vector CANoe CAPL scripts.

▷ Added Functional Safety(FSM) for Stop Lamps and other lights failure strategy with up to ASIL B compliance to a Body Control Module ECU.

▷ Added features for SBR mats and buckles controls, UDS DTCs and DIDs, as well as Diagnostics routines to ECUs.

▷ Configured CI and scripts to run unit tests as well as having QTools reports to detect any MISRA findings in the code.

▷ Developed OTA software updates, logging, and custom commands for Telematics Control Unit(TCU).

▷ Documented and constructed multiple guides about TCUs and ECUs services and features in Confluence.

Developer at STIR LAB |Orlando, Florida, USA.
June 2019 - July 2020

▷ Converted mock-up into a website using HTML, CSS, JavaScript as frontend and PHP as the backend.

▷ Analyzed Instagram data export and construct a relational database and schema using AWS RDS with MySQL.

▷ Developed Instagram data upload and database parsing using AWS Lambda functions.

▷ Hosted a website in an AWS EC2 that connected workflow with Qualtrics Survey and added a personalized experience to the beginning and end of survey.

▷ Lead an IT and security audit including resolving CVEs using AWS Detective and Inspector.

Projects

myGrowth |Source

▷ Compiled design documents and requirements illustrating the project capabilities, limitations, and milestones.

▷ Constructed a multi-platform application using React Native that interacted with an AWS Server-less back-end secured through AWS Cognito.

▷ Developed a system using GraphQL with AWS Amplify to effortlessly collect daily health entry from the user and store them in the DynamoDB database for later editing and data visualization.

Education

University of Central Florida |B.S. Computer Science
08/2017 - 05/2021 | Orlando, Florida, USA.
GPA: 3.5/4.0

Yocto Project Training
12/2023

Interest

Hackathon Enthusiast | Linux Ninja | Yocto Hacker | Machine Learning Fan