

Alvar Fernandez Villasante

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Experience

TTTech Auto

September 2022 - August 2023

Embedded Software Developer

Madrid

Development of low level drivers in C for automotive SOCs (TDA4, S32G) running with QNX.

Unit (vector cast) , component and integration testing of the code developed.

Documentation of the code and processes for ASILs levels.

Python scripting.

DeustoTech - Deusto Institute of Technology (Deusto Foundation)

September 2020 - July 2021

Embedded Software Developer

Bilbao

Development and implementation of an active datalogger using **FreeRTOS** on a **ATSAML21** microcontroller.

University of Deusto

September 2018 - June 2020

Programming Support Teacher

Bilbao

In charge of supervising and supporting students with **C**, **python** and **Java** in the programming room at the University of Deusto.

Deusto Moto Team

September 2019 - September 2021

Engineer

Bilbao

Member of the "Deusto Moto Team" project, a University of Deusto project that consists of creating an electric motorbike to take part in the international university Smart Moto Challenge. Specifically, I am part of the "SMART" (iot) team, which is responsible for connecting the bike with the environment and providing it with intelligence.

Education

University of Deusto

2016 - 2021

Computer Engineering

Degree

University of Deusto

2016-2021

Industrial Electronics and Automation Engineering

Degree

University of Granada

2021 - 2022

Data Science and Computer Engineering

Master Degree

Projects

University of Granada

Signal Detection on Kria KV260

Signal detection and classification using deep learning , specifically, yolov7-tiny modified in order to use hardware accelerators (**fpga**) of the **Kria KV260** (Xilinx ´ s computer vision carrier board).

Used in this project Vitis-Ai, DPU, yolo, PYNQ, KV260

Deusto Moto Team

Multiplatform App

Developed a full stack multiplatform app using react native and express js. The app shows data from an electric motorcycle sensors in real time.