MARC GARRIDO CASAS

Firmware / Software Embedded Engineer

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EXPERIENCE

Deep Detection (Startup)

Embedded / Firmware Engineer, photon counting (R+I+D) C++20

Dec 2023 – Apr 2025

Successfully designed and implemented new functionalities to optimize the camera, achieving the maximum speed while improving the robustness and reliability within a tight timeframe.

FICOSA Automotive, Panasonic

Firmware Engineer (R+I+D), ADAS. C / C++11

Feb 2022 – Dec 2023

Implemented new functionalities based on client requirements and bug-solving.
Developed a personalized Bootloader using AUTOSAR classic.
Discused and analized client requirements using DOORS.
Worked in a Git workflow environment, with Can Bus, Automotive tools.
Reduced 20% of bugs during production.

Derivco Sports, Betway

Software Engineer (Backend), Betting Services. GO / Devops

Jul 2021 - Feb 2022

Developed new code in Go and refactored existing code in Elixir.
Worked with DevOps, Azure, Continuous Integration pipelines, and unit-tests.
Collaborated with an international team following strong Agile 2-week demos.

HP Printing Solutions

Firmware Engineer (R+I+D) for Large Format Printers. C++11

Sep 2019 - Jul 2021

Added new functionalities, fixed bugs, and added Gtests using C++.
Successfully developed C++ code for real-time servo movements.
Achieved a **2x** increase in printing speed while maintaining quality.
Improved the lifespan of a printer motor by **4x** and redesigned its movement.
Conducted master's thesis on optimizing PID values for a specific motor.
Worked in a large team following agile methodologies with strict deadlines.
Utilized embedded systems, RTOS, SVN, and cross-compilation.

PROMAX Electronica (Internship)

Firmware Engineer (R+I+D). C++17

Feb 2019 - Jun 2019

Conducted a bachelor's thesis on creating a cost-effective FM decoder.

RearSim (Startup)

Computer Engineer (R+I+D) - Backend, Frontend, Firmware. DLLs. Electronics. C++11 / C# / Arduino

Sep 2017 - Jul 2019

Programmed the movement of a physical motorcycle simulator.
Developed a C# software with real-time control using threads.
Improved the product reaction time by **5x** by optimizing servos and PID.

EDUCATION

Informatics Engineering

(UPC - FIB) Bachelor's Degree

2013 – 2019

Specialization in Computer Engineering

Data Science

(UOC) Master's Degree

2020 – 2022

Digital Marketing

(UOC) Master's Degree

2025 – Now

PROGRAMMING

C++ | C | C# | Python | Go

ENVIRONMENTS

Linux | Git | SVN | RTOS

OTHER STRENGTHS

Problem Solving | Debugging | Parallelism | Multi-threading | Web Scraping | TCP/UDP | CAN Bus

PROJECTS

Autonomous Bot for an online game

Web scraping and statistics

Airport managment program

CodeClub (teaching programming to kids)

Various Arduino projects

LANGUAGES

Català ●●●●●
Español ●●●●●
English ●●●●○