Marc Garrido Casas

PERSONAL DATA

October 14th, 1995
Cervelló 08758
+34 618 133 038
Garridocho@gmail.com
linkedin.com/in/marcgarrido
github.com/Garriden

EDUCATION

Master's degree in Data science (UOC) 2020 – 2022

Bachelor's degree in Informatics Engineering (UPC - FIB) 2013 – 2019

Specialization: Computer Engineering.

PROFESSIONAL EXPERIENCE

FICOSA Automotive Feb 2022 – Actual

Firmware engineer, (R+I+D).
New functionalities and bug-solving in C.
Messing with Can, Automotive tools, git and client requirements...

Derivco Sports, Betway Jul 2021 – Feb 2022

Software engineer, backend, betting services.
Develop new Go code and refactoring old code in Elixir.
Devops, Azure, Continous Integration pipelines, Unit testing.
International team. Agile/Scrum method, 2 week demos.

HP printing solutions Sep 2019 – Jul 2021

Firmware engineer (R+I+D) for Large Format Printers.
Debugging new funcionalities, fix old bugs, add Gtests.
Develop new C++ code for servo movements in real time.
It was needed to increment x2 la the printing speed maintaining the quality.
Improve x1.5 times, one printer motor, necessary to stack the pages with the new speed.
Upgrading x4 the life cycle of another motor, rethinking his movement mode.
I did the final master's thesis with them. I had to find the best PID values for a specific motor depending of the data obtained from printers.
Working in a big team, agile method, with hard deadlines.
Sistemas embebidos, RTOS, SVN, cross-compile.

PROMAX Electronica Feb 2019 – Jun 2019

Firmware engineer (R+I+D)
Making a FM decoder in C++ to analyze measurements in real time.
I did the final bachelor's thesis with them.
The result decoder, had the measurements like the competency but with a lower cost.
Cross-compile, Embedded systems, RTOS, Unit testing.

RearSim, (startup) Sep 2017 – Jul 2019

Computer engineer (R+I+D), backend, frontend, firmware and electronics.
Programing the movement of a physical motorcycle simulator.
Develop a C# software with threads to control the simulator in real time.
Control the simulador in real time with maximum security.
Improving x5 the motorcycle reaction time.
Calculate new formulas considering the real Servos, PID...
UDP & TCP sockets, .dlls, Arduino, PLC, drivers, git...

PROJECTS

Autonomous bot 2022 – Actual
Develop a bot to play an online game autonumous in C++.
Memory scanning, threading, TCP/IP packets.

Web scraping & statistics 2018 – Actual
An airport management program with heuristics, in C++.

IA project 2016
An airport management program with heuristics, in C++.

Teaching programming to kids (CodeClub), Volunteer Feb 2016 – Jun 2016

Various little Arduino projects

SKILLS

C++, C, C#, Python, Go, Linux, Git...
Embedded systems, RTOS, Problem solving.
Debbuging, Paralelism, Multi-threading, Web scraping.
Ethical Hacking, Memmory scanning.
Agile Cascade, Agile scrum, Work under pressure.
TPC/UDP/IP, CAN/BUS.
Arduino, Raspberry Pi, PLC.

IDIOMAS

Catalán y Español nivel nativo.
Inglés nivel B2.

COURSES

Various Udemy courses en about Wireshark program.
Various Udemy courses en about Golang programming language.
Decision making in autonomous vehicles (40h).
Deep Learning (40h).
Machine Learning & python (40h).
HTML / CSS / Javascript (40h).
3D design & Blender (40h).

OTHER DATA

Driver’s license, own car.
Geographic availability.
Successfully completed the Lex Fridman challenge.
A curious man.