





# CARLOS G. MARTÍN

COMPUTER & SOFTWARE ENGINEER



## + CONTACT

Telephone  +34 622 13 66 00  
LinkedIn  [Carlos G. Martín Pérez](#)  
Github  [Carlosmape](#)  
Email  [cagrmape@gmail.com](mailto:cagrmape@gmail.com)  
Location Madrid | Tenerife  
Nationality Spanish  
Date of birth February 6, 1993

## + EXPERIENCES



### SOFTWARE ENGINEER 2021 (now)

Developer for ITS final client (SICE). Designing and developing new project features such as catenary energization algorithm (recursive ). Integrating devices such as displays, cameras, intrusion detection systems etc.

Tasks: SW Analysis, design and development

Languages: NET Framework (C#), C++, SQL

Technologies: Windows micro-services, TLS, Unit Testing



### SOFTWARE ENGINEER 2019/2021

Embedded and critical/real-time systems, integrating positioning systems for such as GPS, PRS, IMU. Developer for Madrid METRO physical/electrical simulator. Agile methodologies

Tasks: SW development, HW devices V&V

Languages: Linux, C++ 11 (low-level programming), .NET Framework (C#), Python, Bash

Technologies: GitLab, Unit Testing, Oscilloscope



### .NET FULL STACK DEVELOPER 2017/2019

Custom programming for Sage (ERP software). Nadilux CMMS (own product). Minor windows SW products.

Tasks: SW Analysis, design and development, QA & Testing, SQL DB Design and management

Languages: .NET (C#, ASP/NET), SQL, CSS3

Technologies: Windows services,

## + EDUCATION

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### ENGINEER'S DEGREE, INFORMATICS

2011 - 2016

Universidad de La Laguna

+ CSS3 Diploma + CakePHP Diploma



### ANDROID DEVELOPER DIPLOMA

2018/2019

Universitat Politècnica de Valencia



### LPI ESSENTIALS

2021

Linux Professional Institute



### NODEJS

2022

Udemy "Node: De cero a experto"

## + REMARKABLE PERSONAL PROJECTS

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Developer **MOTOROL**

Owner Fully vanilla Python written videogame engine (not graphical). The idea is to generate the LORE behind the game procedurally also maps. Integrates some basic player mechanics and more complex as NPC dialog system, quests management, multiprocessing, TDD, ....

(Private repository)

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Developer **ULAUNCHER-CALENDAR**

Owner Ulauncher plugin to view calendar that integrates Google Calendar as well (tho show user's incoming events). Written in Python

<https://github.com/Carlosmape/ulauncher-calendar>

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Developer **SLIMBOOK**

Contributor Developing and discussing about SlimbookBattery (a software to manage Slimbook's laptop battery, compatible for another Linux distributions) Written in Python

<https://github.com/slimbook>

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Welder **IRIS SPLITTED KEYBOARD**

Configurator Assamby Iris keyboard PCB's and configured Dovrak and QWERTY spanish keyboard layouts

<https://github.com/Carlosmape/IrisKeyboard>

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Developer	<b>CYLOCK</b>
Owner	IoT solution for an bicycle alarm. It notifies vehicle theft attempt to owner's phone using the embedded device located inside the chassis position, this device also stores the way the thief takes.  The embedded device (arduino nano + SIM900) written in C. The Android app written in Java.  (Private repository)

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Developer	<b>PACA</b>
Researcher	PACA is a mechanic – artificial vision robot to help in farms (track's an operator ad is able to transport until 300kg weight). I developed the part of the artificial vision as my Degree's final work. It is written in C++ using OpenCV libraries and running in RaspberryPi  <a href="https://github.com/Carlosmape/TRPI">https://github.com/Carlosmape/TRPI</a>

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## + LANGUAGES

Mother tongue	<b>Spanish</b>
Foreign languages	<b>English</b>  Good writing, medium speaking

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## + IT PROFESSIONAL SKILLS

Operating systems	<b>Linux, Windows, Android</b>
Programming languages	<b>C, C++, C#, Bash, SQL</b>  Python, Java, NodeJS
IDE	<b>NeoVim, Eclipse, Visual Studio</b>
CVS	<b>SVN (Tortoise SVN), Git (Github, GitLab)</b>

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## + PROFESSIONAL HIGHLIGHTS

Very sociable. I integrate easily in new teams

Proactive. I love to take initiatives for new interesting ways of development, techniques and work methodologies

Interested about cybersecurity and privacy

I use Linux in my personal laptop (Manjaro with BSPWM fully customized environment)

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## + OTHER SKILLS AND HOBBIES

Nature, calisthenics, cycling, climbing

Writing novels and poems

Timple apprentice

Some design knowledge

FOSS Lover