

# Agustín Casasampere Fernández

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## About Me

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I'm an FPGM student of microinformatics and networking, with hobbies about Linux and Programming.

I started being interested in technology at the age of 7, and since then, I dedicated most of my life learning about new technologies.

Nowadays I dedicate a large portion of my free time programming and maintaining Linux systems, part of this time includes helping people in various chats, solve issues and understand the various concepts needed for their situation.

I have always been known as the person to ask when any kind of technology related issue occurs, between friends and relatives, and I'm always down to help anyone with their issues.

## Basic Information

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### ●“Garantía Juvenil”

Since 3/May (05)/2019

You can obtain more information about this program in [GarantiaJuvenil.cat](#)

-> tl;dr It brings governmental benefits to the company.

### ●Aptitudes

-> I'm a really fast learner.

-> I am very flexible in my abilities.

-> I dislike leaving stuff half done.

### ●Location

🇪🇸 Spain - Baix Llobregat  
(08620) Sant Vicenç dels Horts

### ●Sites

🌟 [gitlab.com/nitsuga5124](#) — 🌐 [5124.mywire.org](#)

## Formations

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<u>Español</u> Nativo.	<u>Catalá</u> Natiu.	<u>English</u> High level when Written and Spoken.
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### ●Personal

**Programming:** I have experience with mainly 3 languages, these are Python and TypeScript (JS with types) for high-level languages, where I can prototype ideas quickly, and then there's Rust, for low-level programming and production, where the application will have to run fast and efficiently.

I also have experience with various database systems, mainly PostgreSQL, as it's the database used on my largest project, Robo Arc, along with Redis for NoSQL. I do also have experience with MariaDB, for applications such as FreeNAS.

This variety of languages and tools allow me to learn new technologies more easily, making a better use for the time spent learning.

**Markup:** I am also experienced in various Markup languages, these are R.Markdown and LaTeX (Infact, this CV is written in it) for text formatting, HTML and CSS for front end web development, and XML, JSON/JSON5, Toml, INI/Conf, Ron; for static information storage.

**System Administrator:** I have a large quantity of knowledge and experiencing managing systems and services, mainly from my “Home Server”, where I utilize a large variety of services, like a web and proxy server with Nginx, to have shared access to various archives, and to proxy other projects built for learning purposes, like a web server made with Actix.rs, where I'm hosting various API designs.

This server is also used to host Robo Arc, and recently I've been learning about multi system communication by having parts of the application be hosted on a different system.

These parts include the databases, PostgreSQL and Redis, the audio system with LavaLink, and a system to cross compile and update the application.

Most of these run in Docker containers, for the ease of use and the very high-level of management possibilities.

## FOSS Projects:

Robo Arc (Main Maintainer): This is my main project, where I combine a large portion of my programming knowledge. It's a chat bot for Discord, designed to be scalable and easy to add new features onto, while keeping serenity as the main dependency of the project.

Serenity (Contributor): I contribute and help in the development of this library. Serenity is a Rust library to wrap around the API and Voice Gateway of Discord.

Serenity Lavalink (Only Developer): Rust Library designed to be as easy as possible for the programmer using it to use; It allows for Serenity to utilize Lavalink to send voice packets. Currently it's the only library able to do this in the pre-release 0.9 of Serenity.

## ●Scholar

**FPGM:** Microinformatic Systems and Networking -> INS Gabriela Mistral SVH (2017-2020)  
-> Practices module pending due to COVID-19.

In this professional formation I learned how to use various tools to diagnose and solve various hardware issues; How to use and configure systems based on Windows and Linux; How to configure, manage, modify, repair, monitor and utilize network infrastructures of the types LAN and WAN; The various informatic security types, and how to configure network services and web applications.

The teachers of this course congratulated me for being among the best in the class. Being flexible in my abilities and learning fast made me able to achieve this.

**Pre-Employment Orientation Modules:** Basic Professional Formation In: Carpentry, Welding, Plumbing, Screen Printing, Graphic Design, Kitchen and Pastry (2017)

## Current Knowledge and Skills

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**Operating Systems:** Debian, Ubuntu, Arch Linux, Fedora, Cent OS, Windows, Windows Server, Zentyal, Neth-Server, ClearOS, PF Sense, Free NAS / True NAS.

**Networking:** Cisco Packet Tracer, nMap, Traceroute, Wireshark, MikroTik RouterOS and SwOS, PF Sense.

**Security:** Wireshark, Kali Linux, OpenSSL, TLS, SSH / SFTP, FTPS, RSync / SCP, IPTables, UFW, GPG.

**Storage:** ZFS, XFS, BTRFS, NTFS, FAT32, ExFAT, EXT2-4, ZPool, mdadm, RAID 0,1,5,6 and combinations.

**Databases:** SQL, PostgreSQL, MariaDB, Redis.

**Web Applications:** Next Cloud, Xampp/Lamp, Joomla, Moodle.

**Network Services:** Postfix, Dovecot, BIND9, Nginx, Apache2, IIS, Active Directory, DHCP, DNS Server.

**System Administration:** Docker, qemu, KVM, Hyper-V, WSL2, slabtop, tmux, SSH, TelNet, RSync / SCP, SystemD.

**Markup and Programming Languages:** Rust, Python3, TypeScript / JavaScript, Kotlin, LaTeX, R Markdown, HTML / CSS.

**Office:** MS Office Suit, Libre/Open Office Suit.