

# JAVIER ALONSO SILVA

Computer Engineer, software developer and sysadmin

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## EXPERIENCE

### Higher Education Professor

#### Retamar FP

January 2021 – today

Pozuelo de Alarcón, Spain

- Impart ISO subject to ASIR1 students.
- Impart PSP subject to DAM2 students.
- Lead second year students with their projects and enterprise practices.

### Intern

#### Banco de España

February 2020 – August 2020

Madrid, Spain

- Develop hybrid applications (*Ionic* and *Apache Cordova*).
- Refactor old applications using Clean Code patterns.
- Design and develop the new ECCBSO website (*Drupal*).
- Migration of services, applications and infrastructure to Docker.

### Full-stack developer

#### Freelance

December 2016 – today

Develop my own applications and solutions for clients and enterprises.

- Acquire multiple knowledge about new technologies, frameworks and programming languages.
- Develop both *backend* and *frontend* applications and *hardware* solutions.

## EDUCATION

### Master Degree in Distributed and Embedded Systems Software

#### Universidad Politécnica de Madrid

September 2020 – 2021

Campus Sur, Madrid

- CGPA:  $3.2/4$  (January, 2021)
- Honoric Mention: *Engineering in Systems Software*

### B. Sc. in Computer Engineering & Science

#### Universidad Politécnica de Madrid

September 2016 – November 2020

Campus Sur, Madrid

- CGPA:  $2.95/4$  (November, 2020).
- Honoric Mention: *Object Oriented Programming, Final Thesis Project*.
- Volunteer coordination – bone marrow donation campaign (2019, 2020).
- Laboratory assistant (2019).
- Factoría de Talento (2019).
- Quatum Computing Madrid (2019).
- ECSA Volunteer (2018).
- PyLadies active participant (since 2017).
- Clean Code course (Autentia, 2017).

## ABOUT ME

I am a passionate Computer Engineer loving increasing my knowledge and never stop learning! I built OSS tools and hardware for my own needs including from server-side applications to end client solutions.

## SOFT SKILLS



### Motivation

I love expending time working on my projects and continue learning by myself.



### Liderazgo

I would like to become a leader, not a boss. Thus, even after adversities, I tried to be that leader in order to guide, help and reach the goal with the rest of the team.



### Fast learner

It's not difficult for me to start learning a new technology or continue improving my abilities, which means that I never stop learning.

## TECHNOLOGIES

Python Kotlin Java  
Android C/C++ SQL  
Javascript TypeScript NodeJS  
Linux DevOps Docker  
Git Hardware design  $\LaTeX$   
LibreOffice / MS Office Shell JSON

Computer Engineer Linux enthusiast  
Android developer UI/UX designer  
Embedded systems developer

## LANGUAGES

Español  
Inglés – B2 (TOEIC)



# MY PROJECTS

## </> Aplicaciones

### *Handwashing reminder* — **Kotlin**

An app that reminds you when you have to wash your hands.

 Javinator9889/Handwashing-reminder

### *ThdKernel* — **C**

Custom kernel for ASUS Vivobook Pro 15 (N580GD).

 Javinator9889/ThdKernel

### *YouTubeMDBot* — **Python**

A powerful bot for downloading almost every video on YouTube.

 Javinator9889/YouTubeMDBot

### *Bonsai AIO* — **C/C++/Arduino**

Control water level, temperature, time, bonsai light and automatic irrigation with an Arduino board.

 Javinator9889/BonsaiAIO

### *KernelUpgrader* — **Python**

A Python tool for upgrade your kernel safely from kernel.org.

 Javinator9889/KernelUpgrader

### *Calculator* — **Kotlin**

A powerful calculartor designed to work as fast as possible using the lowest resources.

 Javinator9889/Calculator

### *pArm - S2* — **C**

pArm software built-in the final device.

 pArm-TFG/pArm-S2

# REFERENCES

## Vicerrector Fco. Javier Jiménez Leube

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✉ Universidad Politécnica de Madrid

## Subdirectora Marta Olea de Cárdenas

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✉ Universidad Politécnica de Madrid, Campus Sur

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## Prof. Vicente García

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## Articles

- Javier Alonso Silva, Mihai Octavian Stanescu, and José Alejandro Moya Blanco (Oct. 2020). "pArm – sistema informático empotrado para gobernar un brazo robótico de diseño abierto". In: URL: <http://oa.upm.es/65304/>.
- Javier Alonso Silva, José Alejandro Moya Blanco, and Roberto Álvarez Garrido (Nov. 2019). "Estudio del manipulador uArm". In: p. 37.