

# Curriculum Vitae

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Nationality: Spanish

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## Summary

SW engineer who pivoted from embedded software into the web app world. Main focus on back-end. I work now for businesses while I keep building stuff on my own.

### Latest creation

<https://aipromoterbot.com>

SaaS to create bots and use AI to promote stuff on reddit.com

Main stack: Next.js 13, FastAPI, Postgresql, Docker, Stripe

## Experience

**Nov. 2023 - Currently**  
Celtiberian Solutions  
Remote

Senior Software Engineer

**May. 2023 - Oct. 2023**  
Dygma Lab S.L.  
(Startup)  
Remote position

Back-end Engineer

Main work on Bazecor app <https://github.com/Dygmalab/Bazecor>:

- Upgrade from legacy Electron app to Electron Forge
- Set up CI/CD for testing and automatic releases
- Set up GCP HSM for signing executables
- Introduction of Typescript into the company

Also, MVP for sharing keyboard configurations, specifically, API & DB, deployment and front-end business logic: <https://layer-hub-frontend.vercel.app>

**Sep. 2020 - May. 2023**  
Europe

Solo Entrepreneur

Transition into web/mobile phone apps sector. Solo creator of kindoi.com (travel itinerary generator), main achievements:

1. Built backend with Nodejs(express), MongoDB as database, Sentry for error tracking and Redis for caching. Blog used Strapi for CMS.
2. Built frontend with React, Storybook for quick prototyping. Blog used Nextjs for static generation.
3. CI/CD pipeline setup on Gitlab.
4. Deployment with Kubernetes on Google Cloud.
5. Driving user traffic through marketing.
6. Application to accelerators and search of funding.

Also, I created a different app, but a mobile phone one, with React-Native

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	(Expo) and Supabase(Postgresql).
<b>Nov. 2018 - Sep.2020</b> U-blox Melbourn Ltd. Cambridge, United Kingdom	Embedded Software Engineer, LTE Modem Software Framework Team Worked developing drivers in C++. For example, drivers for GNSS Time Synchronisation module.
<b>Jan. 2017 - Oct.2018</b> Rolls-Royce plc. Solihull, United Kingdom	Embedded Software Engineer, Research & Technology, Civil Aerospace -Case study of auto test generation based on SPARK 2014; Article written: "Functional requirements-based automated testing for avionics". -Concept creation and first prototype of verification specification meta-model using Epsilon. -Verification improvements technology readiness level (TRL) 4 achieved. Collaboration for TRL 6.
<b>Aug. 2015 - Nov.2016</b> Ricardo UK Ltd, Cambridge, United Kingdom	Embedded Software Engineer -Implementation of TCP/IP Modbus over an ECU ( <i>C language</i> ) -Collaboration in the improvement of Software Development Plan ( <i>C language &amp; Simulink</i> ) -Integration and Application layer of an electronic limited slip differential ( <i>C language</i> )
<b>Oct. 2014 - Mar.2015</b> Creative Electronic Systems, Geneva, Switzerland	Embedded Software Engineer (Internship) -Optimisation in the communication between a client, and an embedded server which was inside a kind of bootloader. More than 80% faster achieved. ( <i>Java &amp; C language</i> )
<b>Education</b>	
<b>2012-2013</b>	(Erasmus scholarship, Embedded Systems Master courses) Eindhoven University of Technology, Netherlands Computer Engineering Master
<b>2011-2014</b>	Polytechnic University of Valencia, Spain Computer Engineering Master Latest year was Master Thesis ( <a href="https://github.com/javierguzman/Modbus-CAN-ARM-Cortex-M3">https://github.com/javierguzman/Modbus-CAN-ARM-Cortex-M3</a> )
<b>2007-2011</b>	Málaga University, Spain Computer Engineering Bachelor Final Bachelor project with honours: Porting of a JVM/KVM to Tile64 Architecture <a href="https://github.com/javierguzman/kaffe">https://github.com/javierguzman/kaffe</a>

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## Languages

**Spanish:** Mother tongue

**English:** Proficient

**French:** Basic