



Daniel Bretón Suárez

Contact data

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<https://www.linkedin.com/in/dabresua/>

<https://dbsportfolio.wordpress.com/>

Embedded software engineer with experience in electronic design and product development.

About me: I am very independent, good at problem solving and I can think outside the box. I am always learning something new because I am very curious.

Skills

Software

Mastered languages	C, C++
Other languages	Python, Bash scripting, Assembly (multiple), Matlab/Octave, Java
Static analysis	Valgrind, GNU debugger, cppcheck
Optimization	Memory management, profiling
VCS	Git, Subversion
DevOps & CI	Gitlab, Github , Jenkins
Documentation	Doxygen, markdown
Distribution	Software releases, changelogs
Product development	Bug reporting, continuous integration, unitary tests
Project management	Schedule, milestones, activities, deliverables
Team management	Documentation, workflows, code reviews, best practices

Embedded

Architectures	8-bit ARM, 32-bit ARM, 8-bit PIC, 8051, embedded debian
Low-level communications	SPI, UART, I2C
MCU knowhow	IRQs, low-power management, bus clocking, RTC
RF	RFID, Bluetooth, NB-IoT, 4G, 3G, 2G, LoRa, 868Mhz/433Mhz p2p radios
Electronics	Analysis, simulations, Schematics, PCB design
Laboratory	Soldering, multimeter, Oscilloscope, signal debugging

Industrial devices

Long-lasting devices	Aging tests, defective analysis, patches
Manufacturing	Manufacturing instructions, integration, training
Smart grids	DLMS, massive deployment, massive updates

Office basics

Operative systems	Windows, linux (debian based), virtual machines
Networking	ssh, remote desktop, server administration
Microsoft office suite	Word, Excel, Power point

Professional experience

Devo

Position = "Senior software engineer"
Location = "Remote"
Period = "From March 2022"
Description = "Maintain the osquery project. "

ZIV Automation

Position = "Embedded software engineer"
Location = "Bilbao Area"
Period = "From September 2018 to March 2022"
Description = "Develop embedded software for multiple smart grid projects. "
"Develop drivers for ARM 32-bit MCU. Develop tools and scripts. "
"Manage software teams. Implement good practices. "
"Schedule software projects. Design architecture. "
"Technology consultant. International project on Saudi Arabia. "

Treelogic

Position = "Hardware and Firmware engineer"
Location = "Central Asturias Area"
Period = "From April 2015 to September 2018"
Description = "Develop hardware and embedded software for multiple projects. "
"Schedule projects. Design architecture. "
"Technology consultant and forecasting. "

Capgemini

Position = "Software engineer"
Location = "Central Asturias Area"
Period = "From October 2014 to April 2015"
Description = "Develop software for insurance company. "

Ikerlan

Position = "Power electronics researcher"
Location = "Remote"
Period = "From September 2013 to October 2014"
Description = "Research new technology for DC-DC converters (equalizer)."

Sound technician (multiple employers)

Position = "Sound technician"
Location = "Multiple"
Period = "Multiple"
Description = "Live events. Sound devices maintenance."

Education

University

Master of Science in telecommunications engineering conducted at [Universidad de Oviedo](#). Asturias, Spain.

- Strong focus on calculus and algebra. Including mathematical modeling and simulations.
- Electronic theory, simulations and prototyping for power electronics, control and communications.
- Software engineering foundations. OOP and embedded devices. Computational complexity, algorithms, computer science and network architecture.
- Signal theory and stochastic processes for telecommunications systems modeling.
- Strong focus on electromagnetism theory. Antenna prototyping.
- Project management, feasibility and viability analysis.
- Technical drawing and CAD basics.
- Classical physics and quantum theory basics.
- Basics on economics.

Post-graduate education

Subject	Company	Year
Code quality on Python	Toronto University	2021
Remote team management	GitLab	2021
Gitlab best practices	ZIV	2021
Cybersecurity at work	ZIV	2021
Doxygen best practices	ZIV	2021
Unitary tests and continuous integration	ZIV	2020
Static code analysis tools	ZIV	2020
GNU Autotools	ZIV	2019
Introduction to PRIME	ZIV	2019
First Aids	Tecnia	2019
Code style	Tecnia	2019
Electrical risks and security	Tecnia	2019
Introduction to A.I	Stanford University	2019

Languages

- **Spanish:** Native
- **English:** Advanced user. Cambridge English CEFR level C1

Awards

2015 Third Prize Paper Award.

The Transportation Systems Committee of the IEEE Industry Applications Society.

For the manuscript co-authored with M. Arias, M.M. Hernando, U. Viscarret and Iñigo Gil, entitled “Equalization system for serially-connected battery cells based on the wave-trap concept” as presented at the 2014 Energy conversion Congress and Exposition, Pittsburgh, PA, USA.

Codingame

C language certification



C++ language certification



Interests

Music, hiking, running, science, homebrew beer, culture, gastronomy

Other links of Interest



Personal portfolio



<https://www.linkedin.com/in/dabresua/>

<https://dbsportfolio.wordpress.com/>

<https://bit.ly/3xL5EvP>

<https://github.com/dabresua>

<https://www.codewars.com/users/dabresua>

https://www.hackerrank.com/d_breton_suarez

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