Daniel Bretón Suárez



Contact data

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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

C, C++ Mastered languages Python, Bash scripting, Assembly (multiple), Other languages 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 Bug reporting, continuous integration, unitary tests Product development Project management Schedule, milestones, activities, deliverables Documentation, workflows, code reviews, best Team management practices

Embedded

Laboratory

Architectures

Low-level communications

MCU knowhow

RF

RFID, Bluetooth, NB-IoT, 4G, 3G, 2G, LoRa, 868Mhz/433Mhz p2p radios

Electronics

Analysis, simulations, Schematics, PCB design

8-bit ARM, 32-bit ARM, 8-bit PIC, 8051, embedded

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

Profesional experience

ZIV Automation

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Position = "Embedded software engineer"

Location = "Bilbao Area"

Period = "From September 2018"

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."
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Treelogic

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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. "
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Capgemini

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

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Position = "Power electronics researcher"

Location = "Remote"

Period = "From September 2013 to October 2014"

Description = "Research new technology for DC-DC converters (equalizer)."
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Sound technician (multiple employers)

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Position = "Sound technician"

Location = "Multiple"

Period = "Multiple"

Description = "Live events. Sound devices maintenance."
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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	Tecnalia	2019
Code style	Tecnalia	2019
Electrical risks and security	Tecnalia	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

HackerRank

https://www.hackerrank.com/d breton suarez

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