Daniel Bretón Suárez

Contact data

d.breton.suarez@gmail.com
https://www.linkedin.com/in/dabresua/
https://dbsportfolio.wordpress.com/

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

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, continous 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

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 analisys.
- Technical drawing and CAD basics.
- Classical physics and quatum 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 continous 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	Standford University	2019

Languages

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

Awards

2015 Third Prize Paper Award.

The Trasportation 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 languaje certification

C++ languaje certification

Profesional experience

Role	Company	Duration
Embedded software engineer[1]	**ZIV Automation**	From september 2019
Embedded software engineer	**Tecnalia**	1 year
HW/FW engineer	**Treelogic**	3 years
Software engineer	**Capgemini**	6 months
Power electronics researcher	**Ikerlan**	1 year
Sound technician	multiple locations	–

Interests

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

Other links of Interest

LinkedIn	https://www.linkedin.com/in/dabresua/
Personal portfolio	https://dbsportfolio.wordpress.com/
CodinGame	https://bit.ly/3xL5Evp
GitHub	https://github.com/dabresua
5 kyu 356	https://www.codewars.com/users/dabresua

Last modification: 30/11/2021

This document is public and is hosted at:

- htlm responsive: https://dabresua.github.io/
- pdf: https://github.com/dabresua/dabresua.github.io/raw/master/DBS_CV_remote.pdf

This document has been generated using markdown and pandoc, source code is available at https://github.com/dabresua/dabresua.github.io

---

1. International experience on Saudi Arabia 2020.↩