Daniel Bretón Suárez



Contact data

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Software engineer with experience in IT and embedded.

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.

I focus on developing highly optimized tools and applications. I'm passionate about writing outstanding unit tests. I also have experience on managing small teams and projects. I have experience developing multi-platform applications (Linux, Windows, MacOS) and embedded.

Skills

Software

Native language C, C++
Advanced Golang, Python
Intermediate Matlab/Octave, Java, Assembly
Scripting Bash, Powershell
Code quality tools Valgrind, GNU debugger, Cppcheck
DevOps experience Git, Gitlab, Github
IT experience Ansible, Vagrant

Embedded experience

Architectures

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

Low-level SPI, UART, I2C

MCU knowhow IRQs, low-power management, bus clocking, RTC

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

Hardware Analysis, simulations, Schematics, PCB design

development

Laboratory

Soldering, multimeter, Oscilloscope, signal debugging

Other experience

Virtual environments

Basic IT tools

Bash and PowerShell console knowhow
Cybersecurity

Endpoints based on Osquery
Industrial devices

Manufacturing

Manufacturing instructions, integration, training
Smart grids

Valgrind, Virtual Box, AWS

Bash and PowerShell console knowhow
Endpoints based on Osquery

Aging tests, defective analysis, on-field patches
Manufacturing instructions, integration, training

DLMS, massive deployment, massive updates

Profesional experience

Devo

Position = Senior software engineer

Location = Remote

Period = From March 2022 Sector = IT -> Cybersecurity

Description = Develop and provide engineering support for a multi-platform and multi-purpose

endpoint monitoring solution based on Osquery to recollect a variety of datasets

sitting in their infrastructure, efficiently process them, and create a

comprehensive view that spans multiple applications and use cases in areas such as security monitoring, IT health, and performance monitoring or capacity planning.

Provide visibility and collaborate with the Osquery open-source project.

ZIV Automation

Position = Embedded software engineer

Location = Bilbao Area

Period = From September 2018 to March 2022

Sector = Industrial -> Smart Grids

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

Sector = R&D -> IT/Robotics

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

Sector = IT -> Consultancy

Description = Develop software for insurance company.

Ikerlan

Position = Power electronics researcher

Location = Remote

Period = From September 2013 to October 2014

Sector = Industrial -> R&D

 ${\tt Description = Research\ new\ technology\ for\ DC-DC\ converters\ (equalizer).}$

Sound technician (multiple employers)

Position = Sound technician

Location = Multiple Period = Multiple

Sector = Shows and Events

Description = Live events. Sound devices maintenance.

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 |
|--|---------------------------|------|
| AWS Essentials | Amazon Web Services (AWS) | 2023 |
| Essential productivity skills | LifeLabs Learning | 2022 |
| Go: The Complete Developer's Guide | Stephen Grider | 2022 |
| Ansible for beginers | Mumshad Mannambeth | 2022 |
| 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: Writing and listening C1, speaking B2.



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



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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