

# Daniel Bretón Suárez

## Contact data

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- https://dbsportfolio.wordpress.com/

Embedded software engineer with experience in hardware development and project management.

## 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.

## Conducted at work

Subject	Company	Year
Unitary tests and continous integration	ZIV	2020
Software analisys tools	ZIV	2020
Autotools	ZIV	2019
Introduction to PRIME	ZIV	2019
First Aid	Tecnalia	2019
Introduction to A.I.	Standford University (online)	2019

## Languajes

- Spanish: Native user
- English: Advanced user. I use it every day for work, for watching tv series, to read most of the articles on the internet. etc.

#### Other

Sound technician conducted at CIDISI. Asturias, Spain.

- Maintenance and operation of profesional equipment.
- Public address and live events.
- Studio recording and radio.

# Profesional experience

Role Company Duration

Embedded software engineer<sup>1</sup> ZIV Automation From september 2019

Embedded software engineerTecnalia1 yearHW/FW engineerTreelogic3 yearsSoftware engineerCapgemini6 monthsPower electronics researcherIkerlan1 year

# Highlighted projects

For more information, please visit my personal portfolio. You can also check the ongoing projects.

## Foggy radar

Company Treelogic

Client Ministry of development of Spain

Description A technological solution to virtualize drivers visibility on foggy conditions

Technologies Radar, smart radio, traffic ligths

Role Hardware & firmware engineer, project management

Years 2016 - 2019

#### Robots for kids

Company Treelogic

Client Adele Robots, Edelvives

Description A consumer electronic device for educating kids at schools

Technologies Robotics, consumer electronics

Role Hardware engineer

Years 2018 - 2019

#### Smart meters I

Company Tecnalia
Client ZIV, Endesa

Description A embedded software development on a smart meter for the spanish market

Technologies Metering, smart grids
Role Firmware engineer

Years 2019

### Smart meters II

Company ZIV, Alfanar

Client Saudi Electricity Company

Description A huge project on smart grids for the whole kingdom of Saudi Arabia

Technologies Metering, smart grids, NB-IoT

Role Firmware engineer, head of software

Years Ongoing, started on 2019



## 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.

## Interests

Music, hicking, running, personal projects, surf, gastronomy, science & engineering, cultural events.

This document is intended to be public, if you require further information like a phone number, please consider to use the methods above.

You can find the last version of this document at https://dabresua.github.io/

You can find the source code for this document at https://github.com/dabresua/curriculum

1. International experience on Saudi Arabia 2020.←