

# FRANCISCO JAVIER BLEDA MOLINA



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Date of Birth: 19/12/1994

Portfolio: <https://vumet3r.github.io/jbledam/>

## Motivation

- Multidisciplinary Engineer, eager to take on new challenges. Through my studies I have gained a methodical aptitude with an ability to analyze problems and solve it dividing it in smaller problems.

## Career Objective

- My objectives are, explore different branches of the engineering such as development of product, networks or IoT. The reason I studied engineering was to never stop learning

## Education:

- 2018-Present – Master of Telecommunication engineering  
2013-2017 Degree sound and image in telecommunications engineering in ARA group.  
(High academic performance group, Teaching in english)  
University of Alicante (Spain)

## Working Experience

- 2018 March-July – Edas ingenieros: Development projects in order to improve the quality of the 4G signal for Telefonica España and Nokia mobile phones antennas.  
2015-Oct 2017 - [Arenas audio](#): Sound engineer, system adjustment and design for live concerts, sound board operator. Equipment repairment.  
2011-Oct 2017 - Musicassette studio. Recording assistant, audio engineer, mic techniques. DAW  
2016- Telemag - Sound engineer.  
2013-2015 - Jr Servicios 06: Sound and lighting engineering. Electronic technician.  
2018-(3 months) - The Ivy Soho (London)- Waiter

## Skills

- **Signal Processing:** Image, audio, DSP, Video engineering  
**Electronics:** Analog, digital, circuit analysis, microcontrollers, FPGA  
**Coding:** Matlab, C/C++, VHDL, Python, Java, PHP, CUDA.  
**Networks:** Cisco, Huawei, OSI, TCP/IP, RIP, DHCP, OSPF, NAT, BGP  
**Acoustic:** Acoustic transducers, Vibroacoustic, Room acoustic, Isolation & Insulation  
**Transmission media:** Communication Theory, Antennas, Modulations  
**Audiovisual:** music & video producer, live events production, lighting, DAWs, Yamaha's soundboards, Smaart, Sat live. Mapp XT, Audiovisual productions.

## Software

- Autocad
- CATT Acoustic
- Adobe Package
- Matlab
- Wireshark
- Proteus
- Qt
- GNS3
- Visual studio

\* these are some of the most important tools I know, but I can learn to use any kind of software

## Projects

- ▶ ▪ First prize to the project **Internet of Bears**. Hack4Good (Telefonica) 2016: Teddy bear able to monitorize the enviroment of a baby through an Android app. It counts with differents sensors and a webcam. As the constest was based in Big data we upload al the data from the sensors in order to find patrons. We used an ML algorithm in order to detect babies crying
- “Cátedra Telefónica” Prize 2017 to **Free human project**. Website able to recognise racism in tweets.  
We created an small **rest API** to conect the backend (VPS) with the frontend. Moreover we made a **bot for telegram** where we can select the racism tweets manually from a previous search with *strong language*.  
With this tweets we find common words in all the tweets.  
After obtaining that we created a heat map with the offensive tweets.  
With **ML** we just made an example with **NaiveBayesClassifier** from the library **nltk** (commun in NLP). If a word appear in all the racism tweet probably this word is offensive.  
For the frontend we used Dashing(<http://dashing.io/>) in order create an easy Dashboard to show the data.
- **TrendWords**- Multimedia Services subjeetc. It was a social network trends analyzer. With this tool we were able to analyze some words an obtain their repercussion. For example study the effect of an advertising campaing.  
As in the previous project, we use an **rest API**, bus this time one developed by the university of Alicante (Social Analytics). On the other hand we used **Clarifai API** in order to detect the object from pictures. The number of mentions and the reputations comes from SA API. And we made a cloud with the key words that usually appear with the main brands names.
- **Arduino sound experience** – We were able to digitalize a sound signal and we create an FM synthesyzher with an LDR resistor using Arduino UNO.
- Audio Effects with DSP Blackfin BF533 in Visual DSP ++.

\*more info in the portfolio, link above

**Personal skills**

- - Handy man. I can from hanging a photo to painting the walls. DIY task
  - Driver licence.
  - I do the maintainance of my own car.
  - I have been playing the guitar since I was 12. With 14 I started as an assistant in a recording studio, which has let me improve my background about all kind of music of the world and I have learned a lot about recordings.
  - I am member of a association called “Guitarras en el convento”, which every year organize a concert with international classic guitarist, as Jorge Cardoso, Aliéksey Vianna or Juan Falú.
  - I am a fan of trekking, and also a nature lover so that I love to spend my free time discovering new places.
  - Traveler. I have visited main capitals of Europe and I hope the list keep growing up.
  - I love reading, and go to the cinema, and of course can not miss listening a good LP.