

# FRANCISCO JAVIER BLEDA MOLINA



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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 them with discipline.

## Education:

- **2018-Present – Master of Telecommunication engineering. University of Alicante**  
2013-2017 - Degree in Sound and Image in Telecommunications Engineering. High Achievers Stream (Teaching in English). University of Alicante (Spain)

## Working

## Experience

- **2019 September – Present : Young Professional at Digital Transformation Department. EUIPO (European Union Intellectual Property Office)**  
2018 March-July – Edas ingenieros: Development projects in order to improve the quality of 4G signal for Telefonica España and Nokia .  
2015-Oct 2017 - [Arenas audio](#): Sound engineer, system adjustment and desing for live concerts, sound board operator. Equipment repairment.  
2011-oct 2017 - Musicassette studio. Recording assistant, audio engineer, mic techniques.  
2018-(3 months) - The ivy Soho (London)- Waiter

## Languages

- **Spanish** (Native), **English** (Complete working proficiency) , **German** (A2)

## Skills

- **Signal Processing:** Image, audio, DSP, Video engineering  
**Electronics:** Analog, digital, circuit analysis, microcontrollers, FPGA  
**Coding:** Matlab, C/C + + , VHDL, Python, Java, Web.  
**Networks:** Cisco, Huawei, OSI, TCP/IP, RIP, DCHP, OSPF, NAT, BGP  
**Acoustic:** Acoustic transducers, Vibroacoustic, Room acoustic, Isolation & Insulation  
**Transmission media:** Communication Theory, Antennas, Digital Modulations, Waveguide.  
**Audiovisual:** recording engineer, live events production, lighting, DAWs, soundboards operator, Smaart, Sat live. Mapp XT.

## Software

- Autocad
- Matlab
- Qt
- CATT Acoustic
- Android Studio
- GNS3
- Squirrel
- Anaconda
- Visual studio

\* these are some of the most important tools I know, but I am able to adapt to different environments

## 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 subject. I created a social network trends analyzer. With this tool I was able to analyze 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 projects in the portfolio, link above

**Soft skills**

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  - Car & Bike Driver licence.
  - 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 like to travel and discover the cultures of different countries.
  - I do the maintenance 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 an association called "Guitarras en el convento", which every year organizes a concert with international classic guitarists, as Jorge Cardoso, Aliéksey Vianna or Juan Falú.
  - I love reading, and go to the cinema, and of course can not miss listening to a good album.