

FRANCISCO JAVIER BLEDA MOLINA



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Date of Birth: 19/12/1994

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

Location: Munich

Motivation

- Multi-disciplinary electronic engineer and programmer, eager to take on new challenges in the semiconductor industry where I could deploy all the knowledge acquired during my academic and professional career and contribute to the success of the industry.

Working Experience

- **2020 September – Now:** Business Analytics Centre of Excellence trainee in European Patent Office. Creation of dashboard with tableau, SQL databases management, support migration from SaS to microservices. Automation scripts development in python.

2019 September – 2020 September: Young Professional at Digital Transformation Department. EUIPO (European Union Intellectual Property Office). Support Digital IP solution team. Creation of automation scripts in python.

2018 March-July: Edas ingenieros: Development projects to improve the quality of 4G signal. Outsource for Telefonica España and Nokia.

2015 - 2019 (Summer Seasons): [Arenas audio](#): Sound engineer, sound system adjustment and design for live concerts, sound board operator. Electronic equipment repairment.

Education

- **2018 October -2020 July:** Master of Telecommunication engineering University of Alicante ([info](#)).

2013 September -2017 July: Degree in Telecommunications Engineering. High Achievers Stream (Teaching in English). University of Alicante.

Languages

- **Spanish** (Native), **English** (Working proficiency), **German** (B1)

Skills

- **Coding:** Unix, Python, MATLAB, C, Java, SQL, Web.
- Electronic:** IoT, Analog, Digital, VHDL, Verilog, Spice, FPGA, Xilinx ISE.
- Networks:** Cisco, Huawei.
- Transmission media:** RF, Communication Theory, Antennas, Satellites communication, Digital Modulations, Waveguides.
- Signal Processing:** Image, audio, DSP, Video engineering.
- Acoustic:** Acoustic transducers, Vibroacoustic, Room acoustic.

Projects

- ▪ **Master's dissertation July 2020.** Smartphone's application to help impaired vision people with daily tasks. This application uses the mobile phone camera as an input. It processes the images using **machine learning** algorithm and create and automatic description of the images. This description is converted to audio.
- First prize to the project **Internet of Bears**. Hack4Good (Telefonica) 2016: Teddy bear able to monitor the environment of a baby through an Android app. It counts with different sensors and a webcam.
My responsibility was to design and implement all the electronic sensors inside the Bear. As the contest was based in Big data, we upload al the data from the sensors to the cloud to detect the baby crying using ML.
- "Cátedra Telefónica" Prize 2017 to **Free human project**. Website able to recognize racism in tweets. I run a **bot in telegram** where people could select the racism tweets manually from a previous search with *strong language*. With these tweets I trained and algorithm to get automatically offensive tweets. I created a world heat map with the disrespectful tweets. For the frontend I used Dashing(<http://dashing.io/>) to create an easy Dashboard to show the data.
- **TrendWords-** (2017). I created a social network trends analyzer. With this tool I was able to analyze words and obtain their repercussion. For example, study the effect of an advertising campaign. I used a rest API developed by the university of Alicante (Social Analytics). On the other hand, I also used **Clarifai API** to detect the object from pictures.
- **Arduino sound experience 2016**– I were able to digitalize a sound signal and I create an FM synthesizer with an LDR sensor using Arduino UNO. The complexity of this project comes from the low memory available, so I have to code it on assembly code.
- Audio Effects with DSP Blackfin BF533 in Visual DSP ++ (2016).

*more projects in the portfolio, link above

Others

- ▪ Car & Bike Driver license.
- I am a fan of trekking, I love nature and spending my free time discovering new places with my friends.
- Traveler. I like to travel and discover the cultures of different countries.
- I do the maintenance of my own car.
- I have been playing 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 recording engineering.
- I love reading, going to the cinema, and of course cannot miss listening a good album.