

# Guillermo Arámburo Rodríguez

 <https://www.linkedin.com/in/aramburog>

## Personal Profile

I'm a MSc Electro-Acoustics graduate with an undergraduate in electronic engineering. I'm very passionate about Music Technology, a topic I've explored during my studies, projects, and work experiences. Mainly searching for Signal Processing positions.

## Work Experience

### DSP Engineer - Permanent

Marcoussis, France

L-ACOUSTICS

Dec 2023 - Present

- Permanent position in the DSP team, working in projects related to physical modeling.
- Developing real-time adaptive system identification algorithms among other audio algorithms and also implementing advanced non-linear loudspeaker models.
- Currently specializing in Machine Learning.
- **Technical Skills:** Python (Numpy, Tensorflow, Pytorch), C, C++, LT SPICE,  $\LaTeX$ , MATLAB, Acoustic Measurements, JUCE, Signal Processing, MaxMSP, Git, Klippel System.

### DSP Engineer - Internship

Grenoble, France

ARTURIA

Feb 2023 - Aug 2023

- Internship on modeling guitar amplifiers to end my master studies.
- Developed virtual analog models for vacuum tubes and the guitar amplifier Fender Blues Jr. IV.
- Implemented a VST for the final model.
- **Technical Skills:** Python, C++, LT SPICE,  $\LaTeX$ , Octave, CurveExpert, TensorFlow, Acoustic Measurements, PluginDoctor, Signal Processing, Ableton Live, FL Studio, Git.

### DSP Engineer - Internship

Hamamatsu, Japan

YAMAHA

Jun 2022 - Sep 2022

- Internship on developing VST3 audio effects for synthesizers.
- Developed 6 audio effects.
- Researched and reverse engineered products from competitors.
- **Technical Skills:** Python, C++, LT SPICE,  $\LaTeX$ , Max MSP, PluginDoctor, Signal Processing, Ableton Live, Git.

### Lead Sound Designer

Ensenada, Mexico

Carbon Machina

Mar 2020 - Abr 2020

- Recorded, synthesized and processed sounds for videogame "Scavenger".
- **Technical Skills:** FL Studio, Recording, Mixing, Sound design.

## Education

### International Master's Degree in Electro-Acoustics (IMDEA)

Le Mans, France

Le Mans Université

Sep 2021 - Sep 2023

- Awarded the IMDEA Scholarship and Student Excellence Scholarship of the Institut d'Acoustique - Graduate School
- First year's project awarded by Orosound
- **Courses:** Acoustics, Room Acoustics, Numerical Vibroacoustics, Transducer Modeling and Design, CAD Modeling, Power Electronics, Signal Processing, Digital Filtering, 3D Sound and Sound-Field Synthesis, Mini & Micro Transducers, Sound Perception, Transmission Lines

### Intensive English Course in Preparation for Postgraduate Studies

Chihuahua, Mexico

Jóvenes de Excelencia Citibanamex, taught by teachers from Durham University and organized with University of Leeds & Queen Mary University of London

Oct 2019 - Nov 2019

- Awarded certificate of academic excellence
- Courses on how to write dissertations and give presentations.

### Undergraduate in Electronic Engineering

Ensenada, Mexico

Universidad Autónoma de Baja California

Feb 2015 - Jul 2019

- Graduated with academic excellence
- ERASMUS semester abroad in Montanuniversität Leoben, Austria
- **Courses:** Algebra, Multivariable Calculus, Differential Equations, Electromagnetism, Signals and Systems, Embedded Systems, Printed Circuit Board Design, Analog Circuit Design, Digital Electronics, Digital Signal Processing, Metrology, Numerical Methods, Systems Control

## Skills

**Programming** Python, C++ (Arduino, Beagleboard, JUCE, Steinberg SDK, MATLAB, C (Max MSP), Raspberry Pi, Teensy).

**CAD** SOLIDWORKS, EAGLE, Sketch Up, COMSOL

**Miscellaneous** Git, Max MSP, LT SPICE, Proteus,  $\LaTeX$ , Microsoft Office, FL Studio, Ableton Live.

**Soft Skills** Adaptability, Detailed-Oriented, Documentation, Motivated, Research, Teamwork, Time Management

## Interests

**Music Production** This hobby led me to pursue the field I'm currently working in. I love drafting songs and learning.

**Cinema** I like to keep an eye on film festivals to find new films to watch. I also love learning about the film-making process.

**Drawing** Lately, I've been trying to learn how to draw, as I have a huge love for art.

**Video Games** I occasionally play Nintendo Switch games.

**Device Prototyping** I really enjoy the process of coming up with an idea for a device and trying to make it come true.

## Languages

**English** Professional proficiency

**Spanish** Native proficiency

**French** Limited working proficiency