



# DE LA GORCE BAPTISTE

Computer Science / Electronics / Signal processing

☎ 06.68.20.37.79

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## COMPETENCIES

|                          |  |
|--------------------------|--|
| <b>Computer Science</b>  | Python (PyQt, numpy), C , C++, Max/MSP, Matlab |
| <b>Electronics</b>       | Analog and digital circuit design              |
| <b>Signal Processing</b> | Temps/fréquence (Fourier, phase vocoder)       |
| <b>CAD</b>               | Solidwork, laser cutting                       |
| <b>Music</b>             | Guitar, recording, and audio diffusion         |

## EDUCATION

### MASTER'S DEGREE IN ACOUSTICS

University of Aix-Marseille  
2004-2005

### ISEN ENGINEER

Institut Supérieur  
d'Électronique et du Numérique  
41 Bd Vauban, 59800 Lille  
1999-2004

### BACCALAUREATE

Mathematics specialization  
Lycée Pasteur  
1 Rue des Urbanistes  
59000 Lille  
1999

## EXPERIENCES

- 2024** ● **INRIA** (*National Institute for Research in Computer Science*)  
Incubation of the Smart Audio Tools creation project.
- 2023** ● **SMART AUDIO TOOLS.** Development of an infrared camera and facial recognition software (Python, PyQt, C++), enabling musicians to control their audio effects using facial expressions.
- 2013** ● **Python Language Teaching**  
Private lessons and instruction to contemporary artists.
- 2012** ● **Independent Developer.**  
Programmed interactive installations in Python and Max/MSP for contemporary artists.  
Developed a real-time programming environment in Python based on the PyQt library.  
Conducted research on real-time tempo tracking algorithms.
- 2006** ● **MIXVIBES** (*Audio software editor for DJs*)  
Research & development in audio signal processing.
- 2005** ● **IRCAM** (*Institut de recherche et coordination acoustique/musique*)  
Development of the real-time version of the phase vocoder "Audiosculpt." Six-month final-year internship.
- 2004** ● **EOWAVE** (*Synthesizer manufacturer*): 3-month internship  
Audio processing algorithm development.
- **ISEN** : 4th Year Engineering School Project.  
Programming of a real-time tempo recognition algorithm with phase-locking in C language.
- **FRESNOY** (*National studio for contemporary arts*) internship.
- 2003** ● **LA KITCHEN** (*Technical expertise for artists*): 1-month internship.
- 2001** ● **SOLUTRONIC** (*Electronics*): 1-month internship.