

Fabien Cesari

Curriculum Vitae

Experience

- Dec. 2014 **Embedded Engineer**, DAVE SMITH INSTRUMENTS - SEQUENTIAL, San Francisco.
Prophet 6 / OB 6: Contributed to the design and development of the user interface and DSP code base. Development of the UART bootloader
Pro 2 / Prophet 12: Update and maintenance of the operating system
- *Platforms*: Microchip PIC32 - HARMONY, Analog Devices Sharc IDE - Visual DSP++
 - *Tools and languages*: C, C++, Python, git
- Oct. 2012 **Development and Research Engineer**, IRCAM - INSTITUTE FOR RESEARCH AND COORDINATION
Nov. 2013 IN ACOUSTICS/MUSIC, Paris.
Project Sample Orchestrator II: Porting and real time development of a spectral envelope generator, a synthesis method based on a instrument model approach.
Project voice for games: Optimization and improvement of the voice following method based on a short time Viterbi algorithm.
- *Tools and languages*: C, C++, Python, Matlab - mex, development of externals for Max/Msp - svn, git
- Sept. 2011 **Real time embedded Engineer**, ARKAMYS, Paris.
Sept. 2012 Development of a real time HMM based speech recognition application embedded on an ARM/DSP platform.
- *Tools and languages*: C, C++, Python, Texas Instrument ARM/DSP, Embedded unix, STM32 card based on ARM, HTK.
- Jan. 2011 **Final Internship**, VOXLER GAMES, Paris.
Aug. 2011 Developed a C++ sound clustering application to be implemented in Aldebaran Robotics "Nao" robot, as part of the "YOJI" project.
- *Tools and languages*: C, C++, Python, Qt, Speex, HTK.

Education

- 2007–2011 **Masters of Engineering**, *Ecole Nationale Supérieure de l'Electronique et de ses Applications (ENSEA)*, Cergy, *Graduate School in Electrical Engineering, Computer Science and Telecommunications*.
Major : Signal Processing, Real-Time & Communications (with honors).
Three elective courses : Musical Acoustics, Speech Processing, Image Processing.

Computer skills

- Programming C/C++, QT, PYTHON, JAVA, Pure Data, Max/MSP, Matlab
Hardware microchip PIC32 / HARMONY, QNX, ARM Architecture, Analog Devices Sharc Chip
Office LaTeX, Emacs Org mode

Languages

- French **First language**
English **Fluent**

Coding and Links

- Website www.magnizdat.com
GitHub <https://github.com/FabienCesari>