Fabien Cesari

Curriculum Vitae

Career Objective

+ Data analysis, Music Information Retrieval, Machine Learning
+ Real time applications, signal processing
+ Cutting edge multimedia development platforms

Experience

Oct. 2012 – Nov. 2013 **Development and Research Engineer**, IRCAM - Institute for Research and Coordination in Acoustics/Music, Paris.
Project voice for games: Optimization and improvement of the voice following method based on a short time Viterbi algorithm.
Project Sample Orchestrator II: Porting and real time development of a spectral envelope generator, a synthesis method based on a instrument model approach.
- *Tools and languages*: C, C++,Python, Matlab - mex, development of externals for Max/Msp - svn, git

Sept. 2011 – Sept. 2012 **Real time embedded Engineer**, Arkamys, Paris.
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 – Aug. 2011 **Final Internship**, Voxler Games, Paris.
Developed a C++ sound application to be implemented in Aldebaran Robotics "Nao" robot, as part of the "YOJI" project. Development and implementation of a pitch calculating algorithm and speech compression for DSP, as part of the European "Wear a Ban" project.
- *Tools and languages*: C, C++, Python, Qt, Speex, HTK.

Education

2007–2011 **Masters of Engineering**, *Ecole Nationale Superieure 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	Embedded linux, ARM architecture, Beaglebone Black, Arduino
Office	MS Office, Open Office, LaTeX

Languages

French	**First language**
English	**Fluent**
Italian	**Basic**

Coding and Links

Website	`www.magnizdat.org`
GitHub	`https://github.com/FabienCesari`
Linkedin	`https://www.linkedin.com/in/fabiencesari`

1701 Kirkham street – San Francisco, CA 94122
(415) 290 0276 • fabien.cesari@gmail.com