Elie Génard

Resume for a creative developper position

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Engineer in Physics

Professional experience

May 2015 — **Short period at Hellicar&Lewis** — London
Hellicar&Lewis

- Research and development with Touch Boards
- Development of an openFrameworks addon

Mars-July 2014 — **Internship in a computer science laboratory** — Bordeaux
LaBRI - Laboratoire Bordelais de Recherche en Informatique

Project: Scalable video summarization of cultural video documents in cross-media space based on data cube approach (international French-Mexican project)

- Extraction and clustering of low-level audiovisual feature descriptors
- Software development in C++

June-September 2013 — **Internship as an engineer assistant in signal processing** — Grenoble
Movea

Project: Step detection for pedestrian navigation

- Data analysis of embedded inertial measurement unit recordings
- Step detection model made with Simulink

Education

2011 - 2014 — **Master's degree at Grenoble INP Phelma** — Grenoble
PHELMA - School of Engineering in Physics, Electronics and Materials Science

2013-2014 Art, Science and Techonology semester
HMI - Haptic interfaces - Programming for interactive creation
Project: Interactive juggling with a diabolo

- Tracking of the juggler arms and diabolo with a Kinect
- Visual feedback with a particle engine that reacts to juggler movements
- Audio feedback made with SuperCollider
- *[More details at elaye.github.io/openframeworks/2014/10/01/interactive-diabolo.html]*

2012-2013 Physics and nanosciences
Quantum physics - Solid-state physics - Laser physics
Project: Ultrafast MRAM memories

- Simulation of the behaviour of magnetic nanopillars (C++)

2011-2012 Physics, Electronics and Telecom
Physics - Electronics - Signal processing
Project: CanSat competition organized by the CNES

- Embedded electronics and Arduino programming

2008 - 2011 — **Preparatory Class to Grandes Ecoles** — Poitiers
Intensive three-year course to prepare for the competitive entrance into France's leading colleges - MPSI - MP - MP* at Lycée Camille Guérin

Physics and mathematics - Engineering science option

About

Age: 25
French: mother tongue
English: conversational
github.com/elaye
elaye.github.io

Skills

LANGUAGES	C++	●●●○
	Ruby	●●●○
	Haskell	●●○○
WEB	HTML5/CSS3	●●●○
	Javascript	●●●○
	Ruby on Rails	●●○○
	Node.js	●●○○
OS	GNU/Linux	●●●○
	OS X	●●○○
	Windows	●●○○
MISC	openFrameworks	●●●●
	LaTeX	●●●●
	Photoshop	●●●○

CAPTION	
Beginner	●○○○
Intermediate	●●○○
Advanced	●●●○
Expert	●●●●