

# Elie Génard

Resume for a creative developer  
position

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Updated on July 6, 2015

## 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  
PHELMMA - School of Engineering in Physics, Electronics and Materials Science

2013-2014 Art, Science and Technology 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](http://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](https://github.com/elaye)

 [elaye.github.io](http://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	● ● ● ●
L <sup>A</sup> T <sub>E</sub> X	● ● ● ●
Photoshop	● ● ● ○

CAPTION

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