

Elie Génard

Resume for a creative coder position

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Engineer in Physics

Professional experience

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]

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

2008 **High school diploma - Scientific option** Barbezieux
With honors

About

Age: 24
French: mother tongue
English: conversational
 github.com/elaye
 elaye.github.io

Skills

LANGUAGES	C++	● ● ● ○
	Ruby	● ● ● ○
	Java	● ○ ○ ○
WEB	HTML5/CSS3	● ● ● ○
	Javascript	● ● ○ ○
	Ruby on Rails	● ● ○ ○
	Node.js	● ● ○ ○
OS	GNU/Linux	● ● ● ○
	OS X	● ● ○ ○
	Windows	● ● ○ ○
MISC	openFrameworks	● ● ● ●
	L ^A T _E X	● ● ● ●
	Photoshop	● ● ● ○
CAPTION	Beginner	● ○ ○ ○
	Intermediate	● ● ○ ○
	Advanced	● ● ● ○
	Expert	● ● ● ●