

NAME: Emmanuel Gil PEYROT  
ADDR.: 31 rue du Général de Gaulle  
94290 Villeneuve-le-Roi France  
TEL.: +339 50 30 35 94  
EMAIL: emmanuel@linkmauve.fr  
AGE: 24  
NAT.: French

## Consultant Graphics Software Engineer

### Qualifications

**2012-present** Master's degree in Computer Sciences, at Pierre-et-Marie-Curie University (expected to be finished in 2015)

**2009-2012** Bachelor's degree in Computer Sciences, at Pierre-et-Marie-Curie University

**2006-2009** High School diploma equivalent in sciences, at Guillaume Apollinaire Highschool

### Professional Experience

**2015-present** Consultant Graphics Software Engineer, at Collabora Ltd.

**Summers 2009 and 2010** Developer of an XMPP backend dedicated at instant photo sharing, at the startup *Plugsbee*.

**Summer 2008** Website author and maintainer, at Polygone Immobilier.

### Personal Experience

**August 2014-present** Developer for a 3DS emulator, Citra.

**August 2011-present** Co-developer of an OpenGL game engine, PyTouhou.

**July 2010-present** System administrator and developer for the Tatoeba association.

**2009-2010** Developer of PS $\hat{G}$ S, a PubSub XMPP component.

**2005-2008** Developer of various little games and utilities on Nintendo DS.

### Computer skills

*Programming languages* proficiency:

- *imperative* and *object-oriented* (Python, C, C++...)
- *functional* (Haskell, OCaml, Scheme...)
- *web*, HTML5, CSS3, JavaScript (web- and server-side)
- scripting (zsh, bash, perl...)
- assembly (read/write MIPS, LLVM IR, read i686, x86\_64 and ARM).
- graphics (GLSL, SVG, (La)TeX, PGF/TikZ...)

Good knowledge of the Linux graphics stack, KMS/DRM, gbm, Wayland, Mesa, OpenGL, etc.

System administrator on UNIX systems (Postfix, Courier, OpenDKIM, Bind9, Prosody, Nginx, etc.)

Mastery of CLI tools, I basically live in a TTY.

Vast knowledge of XMPP, as server and client developer and specification author.

Knowledge of embedded systems like Nintendo DS, Wii, Arduino.

Game and network protocol reverse engineering capabilities.

### Non-technical skills

Spoken and written French and English, notions in Japanese, German and Esperanto.

Involvement in various free software communities:

- booth keeping for Mozilla and JabberFR, at RMLL and JDLL, 2010-2014
- presentation about PyTouhou and reverse-engineering, at FOSDEM 2013
- presence in online communities, mailing lists, XMPP and IRC...

### Interests

I play the contrabass in orchestra, and lyrical singing.

I read a lot.

I also like writing useful and fun free software.