# Computer science student
## Maxime Pinard

👤 22 years old
📍 Saguenay, Quebec, Canada
📱 +33 687 925 509
✉ maxime.pin@live.fr
🌐 maxime.pinard.info
in maxime-pinard
 pinam45

*Student in the final year of a computer science Master's degree program*

## Education and qualifications

**Université du Québec à Chicoutimi**                    **Saguenay, Quebec, Canada**
*Master in computer science*                                                *2018*

Currently in 3rd year, for a double degree with UTBM

**Université de Technologie de Belfort-Montbéliard**              **Belfort, France**
*Computer science engineer diploma, imaging specialty, (eq. Master of Science)*    *2016*

3rd year done at UQAC for a double degree

**Université de Technologie de Belfort-Montbéliard**            **Sèvenans, France**
*DEUTEC*                                                                   *2014*
                                                                           *2016*

Preparatory classes before the specialization

**Lycée Louis Aragon (high school)**                              **Héricourt, France**
*Baccalauréat with major in maths, with honours*    *2011*
                                                    *2014*

## Languages

**French**: Native language                    **English**: B2 (BULATS 68), Professional working level

**Spanish**: Moderate level                    **Japanese**: Basic level

## Computer skills

**Languages**: C++, C, Java 8 (SE et EE), LaTeX/TikZ, Python, Bash, CUDA, SQL, HTML/CSS, Assembly, VBA…

**Tools**: UML, git, Maven, CMake, Make, Regex

**System administration**: GNU/Linux (Debian 8), personal server for Java EE web hosting (Tomcat 8)

**Libraries**: boost, fmt, spdlog, OpenGL, Capstone, Keystone, Json, GTest, SFML, ImGui, GLFW, GLM, Inja, JavaFx, JUnit4

**IDE**: Visual Studio, JetBrains IntelliJ IDEA and CLion, Eclipse

## Work experiences

**Ambulances Phoenix, 2 months**                                 **Héricourt, France**
*Ambulance technician, Patient care and transportation*
                                                               *07/2018 - 08/2018*

**Direction Générale de l'Armement Maîtrise de l'Information, 6 months**    **Bruz, France**
*Intern*
                                                               *08/2017 - 01/2018*
- Work on GenDbg, a multi languages / OS / architecture debugger:
  Development and testing of a disassembly module for MIPS architectures
- Work on YaCo, an IDA Pro plugin enabling collaborative reverse-engineering using Git:
  Ported to C++ and improved Git repository management and IDA events handling

**JAB France, 1 week**                                         **Evolène, Switzerland**
*Activities supervisor, Camp of 40 young people, team of 15 supervisor*
                                                                     *02/2016*

**JAB France, 1 week**                                        **Contamines, France**
*Activities supervisor, Camp of 50 young people, team of 20 supervisor*
                                                                     *02/2015*

**Souchier SAS, 4 weeks**                                        **Héricourt, France**
*Intern, Installation of gaskets and assembly of smoke evacuation systems*
                                                                     *01/2015*

# Others qualifications

- French driving license
- PSC1, *French first aid certification*

# Projects

## Personal

- Music player [C++, ImGui, SFML, spdlog, libmpg123] — *MagicPlayer*
- Number base converter, example ImGui/SFML [C++, ImGui, SFML] — *BaseConverter*
- Console graphical library for Windows and Unix based systems [C] — *ConsoleControl*
- Dungeon crawler with procedural levels generation [Java, JavaFx] — *Raoul-the-Game*
- LaTeX/TikZ implementation of the UTBM internship report covers — *utbm-latex-internship-report-covers*
- LaTeX/TikZ Beamer implementation of the UTBM presentation theme — *utbm-beamer-theme*
- Multiplayer Snake like game (local network) [C++, SFML] — *PapraGame*

## Research

- Hyperplanes calculator in dimension 4 finite geometries, (performance oriented) [C++] — *HyperplaneFinder*
  > *publication [1]*

## Internship

- Hex-Rays IDA collaborative reverse-engineering plugin [C++, GTest, IDA] — *YaCo, Internship report (fr)*
- Assembly / disassembly module for MIPS processors assembly code [C, Capstone, Keystone, GTest] — *Internship report (fr)*

## School

- Construction and render of a 3D parametric object with OpenGL [C++, GLFW, ImGui] — *ParametricObjectsConstruction*
- MiniMetro clone: subway management simulator [Java, JavaFx] — *MagicMetro*
- Pogo game with MinMax/AlphaBeta AI [C++, ConsoleControl] — *Pogo*
- Multi-users file storage server [C++, SFML]

# Publications

[1] Veldkamp Spaces of Low-Dimensional Ternary Segre Varieties, [[not yet published]] (2018)
*Metod Saniga, Jérôme Boulmier, Maxime Pinard, Frédéric Holweck*

# Interests

**Computer science**: New programming paradigms, procedural generation, artificial intelligence, cryptography…, their implementation, and the evolution of quantum computing.

**Science**: Mathematics, physical system simulation, quantum physics…

**Sport**: Skiing and winter sports, cycling (mountain biking in a club for 3 years), mountain hiking