




- 3d & 2d computer graphics
- computational geometry
- low-level optimization
- virtual & augmented reality

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professional experience

Software Engineer - M&E Autodesk	 AUTODESK since 2017
<ul style="list-style-type: none"> Stingray core: game-engine optimization (low-level), AR & VR, platform support, occlusion culling middleware [R&D/C++] 	2015-2017
<ul style="list-style-type: none"> Autodesk LIVE: computational geometry, code optimization, procedural generation, rendering, navigation; [R&D/C++/Max SDK] 	2014-2015
Research project	2014-2015
Developing an importance sampling methodology for this BSSRDF model with Dr. Toshiya Hachisuka , Dr. Derek Nowrouzezahrai and Dr. Jeppe Frisvald [C++/OpenCL/OpenMP/MPI]	
Storytelling and visualization - M.Sc thesis	2013-2015
Methodology to automate the script and the camera movements for huge scientific simulations [OpenGL/CUDA/C++]	
Teacher assistant - Polytechnique Montréal - 1 year	2014
Classes of 50 students on computer graphics	
AI developer - Eugen Systems - 4 Months	2013
<ul style="list-style-type: none"> Developing the game engine (real time strategy) [C++/Python] Working on gameplay features for AAA games [Wargame AirLand Battle, Wargame Red Dragon, Act of Agression] 	
c++ developer - CNRS (Lyon, France)- 3 Months	2012
Development of a templated interactive scene viewer based on a 3d rendering engine [C++/ogre3d/python] https://github.com/DGtal-team/DGtal	

lua ruby C
 C# python C
 C++ glsl cuda

languages {
 english: fluent,
 french: native,
 arabic: native,
 italian: read/written
 japanese: beginner}




developer experience:

```
platforms {
  linux,
  windows,
  osx,
  android,
  webgl/asm.js,
  ios}


tools {
  git,
  cmake,
  visual studio,
  xcode,
  doxygen}

other {
  ogre3d,
  love2d,
  maxsdk,
  boost,
  openmp}

rendering {
  opengl,
  opengl,
  cuda,
  vulkan}
```



education

2009	2013	2015
high school	INSA Lyon M. Eng	Polytechnique Mtl M.Sc A
math engineer sci. 	Sci. background 1st & 2nd years	Computer science 3rd & 4th years Computer graphics 2 years

Technical background
 Project management
 Software engineering

Advanced computer graphics (A*)
 Virtual reality (A)
 Geometry modelisation and viz (A*)
 Parallel computation (A)
 Subjects in computer graphics (A*)
 Rendering (A*)





personal projects

community work {
 tedxinsa, // ideas worth spreading
 jv@insa, // gamejams, conferences
 etic) // junior enterprise



hobbies {
 open-source, piano, photography,
 rugby, video-making, video-games}



- donut:** real-time rendering engine 
 [opengl, vulkan, multi-thread, dcc-tools]
- walk-around:** offline rendering engine (PT, BPT, PM, PSSMLT, AO, etc.) for various mediums (BSDF, BSSRDF).
- field:** design and develop an independent network-based cooperative game involving video game development team. 
 [love2d, lua, GLSL]
- freebird:** airplane simulator in VR for the CAVE. 
 [osg, VR, c++]
- stickman:** design and develop a 3D, network multiplayer first person shooter 
 [c++, python, ogre3D, sfml, bullet, blender]
- Creating several games during **game jams** (~12 games) [Lua Java Python].