

With a computer graphics background, my main interests relates to real-time, characters animation, interactions and crowds behaviors, mixed reality, AI algorithms. Highly motivated I am looking to create and work on intuitive, innovative and disruptive tools.

Skills

languages python, C++ 14, Qt5/Qml

Concepts optimization, multi-threading, TDD, Scrum

Tools Maya, Blender, git, CMake, Conan, Docker, MSVC, VS Code

API Alembic, Fbx, glTF, Pixar's Usd, OpenMP

Experience _____

PocketStudio 06/2017 – now - Paris, France

R&D SOFTWARE ENGINEER

- An innovative real-time and collaborative tool to create 3D movies.
- Real-time 3D visualization multi-threading, bots to test collaborative and conflicts engine, unit tests
- technical papers implementation & computer graphics algorithms importers: obj, fbx, alembic, gltf
- Gui: Interaction Qml Widgets Creation Through software layers, to collaborative engine
- C++ 14, Qt5/Qml, Python, Vulkan & shaders, Conan, Go, Docker, Kubernetes, SQLite, git, GitLab CI

Anatoscope 11/2016 - 02/2017 - Grenoble, France

3D SOFTWARE ENGINEER

- · Real-time 3D visualization algorithms, motion capture algorithms, augmented reality applications
- Technology transfer: from research development to business finalized product CES presentation
- Research in real-time image registration for Augmented Reality improvements
- C++ 11, Python, Qt/Qml, Kinect, Sofa, MSVC, Maya, Blender

TIMC, GMCAO team - INRIA Rhône-Alpes, Imagine team

PHD: USER-SPECIFIC REAL-TIME REGISTRATION AND TRACKING APPLIED TO ANATOMY LEARNING

- Augmented reality real-time anatomically correct mirror 2D/3D registration
- User-Specific Anatomy Registration based on Kinect partial and noisy data as input
- Efficient Body Tracking and GPU Animation: Linear Blend Skinning, joint constraints
- Project Management: planning, development, design, advertising, setup and legal aspects
- Mentoring: 11 internships Publications: 4 Demos: CES 2016 and 3 others.
- C++ 11, Python, Kinect SDK, Sofa, Qt5/Qml, OpenGL, GLSL, Maya scripting (python)

INRIA Rhône-Alpes, Imagine team

EXPERT ENGINEER - MY CORPORIS FABRICA: ANATOMY MODELING BASED ON AN RDFS ONTOLOGY

• visualize anatomical structures - front-end/back-end - ergonomic interaction & navigation

- Anatomy transfert: Multigrid algorithm development and Maya Muscle scripting
- Python, WebGL, Django, Html5, CSS3, Maya scripting (python), OpenGL, SQL, RDFs

Education_____

University Joseph Fourier 2013 – 2016 - Grenoble, France

PHD IN COMPUTER GRAPHICS

UFR of mathematics and informatics 2010 – 2012 - Strasbourg, France

MASTER'S DEGREE IN COMPUTER GRAPHICS AND IMAGE PROCESSING

University of Franche Comté 2007 – 2010 - Besançon, France

BACHELOR'S DEGREE IN COMPUTER AND TECHNICAL SCIENCE

Worth Knowing ____

LANGUAGES HOBBIES

English - proficient Scuba diving - N3

French - native Marine biology - se

Spanish - native Urban roller skate

Japanese - rudimentary Music/Saxophone

HOBBIES

Scuba diving - N3

Marine biology - soon FB1

Urban roller skate - 2 years

Music/Saxophone - 12 years

PERSONALITY TRAITS

Curiosity

Adaptability

Organization

Communication

10/2013 - 11/2016 - Grenoble, France

09/2012 - 08/2013 - Grenoble, France