Jocelyn Meyron

Embedded Linux Software Engineer



Skills

Programming languages:

С	•••••	C++ (17)	•••••	Python	•••••
Java	••••	JavaScript		Haskell	•••••
 Libraries: 	CGAL, DGtal, Eigen,	OpenGL, Qt5,	pybind11, NumPy,	SciPy, Matplotlib,	React, Vue

o Softwares: git, Linux, LATEX, Visual Studio Code, Yocto, Buildroot Blender, LuxRender, GIMP

Professional experiences

2023 - Embedded Linux Software Engineer, Eaton, Grenoble, France

- 2021 2023 IT consultant, Adentis, Grenoble, France
 - C++ Embedded Linux Firmware engineer on different projects:
 - 1. Network card for UPSes
 - $_{\odot}$ Remote UPS firmware upgrade though the HID protocol
 - Integration: Buildroot
 - 2. Charging station controller for electric vehicles
 - Protocols : Modbus, Websocket, MQTT, OCPP 1.6
 Integration : Yocto (dunfell)
- 2019 2021 **Postdoctoral researcher**, *LIRIS*, Lyon, France
 - Pattern generation for digital surface analysis. Supervised by Tristan Roussillon.
 - Development of parameter-free methods to estimate normal vectors on digital surfaces.
 - Development and integration of the algorithms (C++, Python) into the open source library DGtal.

2015 - 2018 PhD Thesis, GIPSA-lab, Grenoble, France

Semi-discrete optimal transport and applications to non-imaging optics. Supervised by Dominique Attali, Quentin Mérigot, Boris Thibert, defended on October 16^{th} 2018.

- Development of efficient adn robust methods to design mirrors and lenses satisfying light illumination constraints
- \circ Development of a software that allows to design such components (C++, python, CGAL library).

Education

- 2012 2015 **Graduate in computer science and applied mathematics**, *Ensimag*, Grenoble, France Specialization: *Mathematical modeling, Vision, Graphics and Simulation*.
- 2010 2012 Preparatory classes for French Grandes Écoles, MPSI-MP*, Marseille, France

Projects

- 02-06/2015 **Research internship**, *GIPSA-lab*, Grenoble, France, Available on my *GitHub* profile • Goal: Discretization of mean curvature flows on point clouds. • Tools: C++ / Python / CGAL / CMake / git.
- 06-08/2014 Research internship, Google Summer of Code, LJK, Grenoble, France, Available in CGAL
 Goal: Implementation of a function for computing an intersection of halfspaces and the Voronoi Covariance Measure (VCM) inside the CGAL library.
 - Tools: C++ / Python / CGAL / CMake / Doxygen / git.

Languages

FrenchMother tongueEnglishFluent in both oral and writing, TOEIC: 960 pointsJapaneseNotions, Japanese Language Proficiency Test N2 Level, received August 2021

Centers of interest

Culture Japanese literature, movies, video games Travel Europe, Asia