

Jocelyn Meyron

Embedded Linux Software Engineer

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Skills

- Programming languages:

C++ (modern)

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C

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Python

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Shell

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BitBake

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- Tools: git, Linux, Yocto (scarthgap), Buildroot

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
 - Remote UPS firmware upgrade through the HID protocol
 - Integration: Buildroot
2. Charging station controller for electric vehicles
 - Protocols : Modbus, Websocket, MQTT, OCPP 1.6 and 2.0.1
 - Integration : Yocto (dunfell, kirkstone, scarthgap)

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 16th 2018.

- Development of efficient and robust methods to design mirrors and lenses satisfying light illumination constraints
- 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

French **Mother tongue**

English **Fluent in both oral and writing**, TOEIC: 960 points

Japanese **Notions**, Japanese Language Proficiency Test N2 Level, received August 2021

Centers of interest

Culture **Japanese literature, movies, video games**

Travel **Europe, Asia**