Nicolas Douillet

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NicolasDouillet

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R&D engineer
3D reconstruction, geometry
Image processing

WORK EXPERIENCE

2020

Mathworks : algebraic geometry. Mesh processing toolbox.

Hi ! (start-up, smartphone application, Nice) : extern consulting for technological project management and methodology.

2019

Youdome, Monaco : expert engineer responsible for the software development. Bodyscan and measures on 3D avatars.

2018

Lycée Carnot, Cannes : math teacher. A level, science section.

2017

Mathworks : development for the Mathworks file exchange community. > 60 functions with doc, and 2.7k downloads.

Sculpteo : design, program and mesh of 3D printable mathematical surfaces. 3D printing project.

2013 - 2016

INRIA Sophia Antipolis : research and development engineer

Galaad team : surface fitting with NURBS. Surface fitting and curve fitting plugins.

Titane team : surface reconstruction with mesh. Optimization and integration of a high precision meshing technique (scale space meshing). Photogrametry.

2012

Cours Nicholas (Nice) : self entrepreneurship : private tutoring in mathematics and physics.

2005 - 2006

INSA Lyon : Msc project. Echocardiographic images segmentation. Level sets, snake curves.

Engineer project. Dynamic imaging and tracking markers on videos, for the study of tyre physics.

EDUCATION

2007 - 2011

CNRS-OCA. PhD : simulated data analysis for the space interferometer LISA. Modeling, inverse problem, parameter estimation, non convex optimization, signal processing. Award : best PhD poster.

2006 - 2007

INSA Lyon. Master of science. Image processing. Movement detection, tomography, inverse problem.

2002 - 2006

CPE Lyon. Engineer : image and signal processing, optimization, programming, algorithm.

2000 - 2002

College prep in superior mathematics (Math-Sup / Spé). Two years full-time higher education in science, languages and general studies, in preparation for competitive entry to Grande Ecoles (high-level schools of science).

LANGUAGES

French — Native speaker.

English — Bilingual. First Certificate of Cambrige University.

German — Working knowledge.