Nicolas Douillet

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R&D engineer 3D reconstruction, geometry Image processing



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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. <u>Bodyscan and measures on 3D avatars.</u>	
2018	Lycée Carnot, Cannes : math teacher. A level, science section.	
2017	Mathworks : development for the Mathworks file exchange community. > 60 functions with doc, and 2.6k downloads.	
	Sculpteo : designs, programs and meshes of <u>3D printable mathematical surfaces</u> .	
2013 - 2016	INRIA Sophia Antipolis : research and development engineer	
	Galaad team : surface fitting with <u>NURBS</u> . Surface fitting and curve fitting plugins.	
	Titane team : surface reconstruction <u>with mesh</u> . Optimization and integration of a high precision meshing technique (scale space meshing). Photogrametry.	
2012	Cours Nicholas (Nice): micro enterprise: private tutoring in mathematics and physics.	
2005 - 2006	INSA Lyon : Msc project. Echocardiographic images and videos 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 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	Fluent. First Certificate of Cambrige University.	
German	Working knowledge.	