Mathieu Geisert

Born on the 27th February 1989, Colmar, France Single <u>Driving license</u> 8 Rue René Duguay-Trouin, 31400 Toulouse, France

http://mathieu-geisert.github.io geisert.mathieu@gmail.com 06 95 15 22 65

Ph. D. Student in Robotics / Aerospace Engineer

Ph. D. Student in Optimal Control, Machine Learning and Planning for Humanoid Robots and UAVs. General Engineer in Aeronautics and Space, minor Automatics and Aeronautical Systems.

OBJECTIVE

Currently looking for a post-doctoral position -- in Robotics, Animation, CAD, Health/Industrial Management or Economy -- on Control, Optimization, Machine Learning, Neural Networks or Data Analysis – starting from May 2018.

EDUCATION

2015-now	Ph. D. in Robotics	
	Optimal Control, Machine Learning and Planning	Université Fédérale de Toulouse, France
2009-2013	SupAéro-ISAE	
	minor Automatics and Aeronautical Systems	ISAE Toulouse, France
	Certification Systems Engineering : INCOSE Associate	
2007-2009	Classe préparatoire: Technology an	d Engineering Sciences
	Mechanical and Electrical Engineering	Lycée Blaise Pascal Colmar, France
2007	Baccalaureate: Industrial Sciences	and Technology
	Mechanics and Electrotechnics	Lycée Blaise Pascal Colmar, France
<u>E X P</u>	<u>ERIENCES</u>	
2015-2018	8 Ph. D. Student at Laboratoire d'Analyse et d'Architecture Système	
	(LAAS-CNRS)	
	Optimal control and machine learning applied to UAVs	and aerial manipulators [2][3];
	Design of a hierarchical optimal control algorithm [1];	Machine learning for planning
	bipedal locomotion on uneven terrains; Ph. D. student re	epresentative and supervision of
	projects with M. Eng. students.	
2014-2015	Engineer at LAAS-CNRS	
	Development for a motion planning software (Humanoid Path Planner); Development of	
a 3D viewer (Gepetto-viewer); Technical support for the E		European project <i>EuRoC</i>
	(simulation environments, website, team support, test e	environments, tests and
	evaluation of programs).	
Jun/ Nov 201	3 Internship at LAAS-CNRS	
	Implementation and test of visual servoing on a human	oid robot (HRP-2) [4]
2011-2012	10 months Working Holiday Visa in Australia	
	Woofing fruit picking travel	•
2007-2013	Robotic Clubs	
2007 2010	CAD numerical machining and machining with manual	lathe of mechanical parts. CAD
	machining assembly of circuit boards: Programing of PLCs · Student project on	
	odometry: Implementation of optimal trajectory and or	potimal politic algorithms.
	seemen ;; implementation of optimide reductory and op	
C 17 1 1		

<u>SKILLS</u> Informatics

Windows/Linux, Python/C++/Matlab/C/JAVA, git, cmake, ROS, PHP, html, xml, Office, Latex. Mechanics & Electronics

Mechanical CAD (SolidWork/Catia), Electronical CAD (Altium Designer), Machining, Assembly Publications

- [1] Regularized Hierarchical Dynamic Programming (TRO 2017)
- [2] Trajectory Generation for Quadrotor based Systems using Numerical Optimal Control (ICRA 2016)
- [3] Using Memory of Motion to Efficiently Warm-Start a Nonlinear Predictive Controller (summited to ICRA 2017)
- [4] Airbus/future of aircraft factory HRP-2 as universal worker proof of concept (HUMANOIDS 2014)
- [5] Multi-contact Locomotion of Legged Robots in Complex Environments The Loco3D project (RSS Workshop 2017)