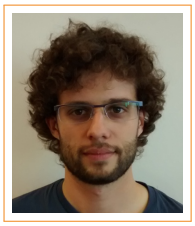

Mickaël Dardaillon

Education

2014 **Doctorate degree**, *INSA Lyon*, Computer Science.

2011 **Master degree**, *Université d'Orléans*, Electrical Engineering.

2011 **Engineer degree**, *Polytech'Orléans*, Electrical Engineering.

Experience

2014–2015 **Research Intern (ongoing)**, *Nokia Technologies*, Berkeley, California.
Implementation of LTE-Advanced protocol on FPGA and manycores.

2011–2014 **PhD Student**, *CITI-Inria, INSA Lyon & CEA, LETI*, Lyon & Grenoble, France.
Compilation for Parametric Dataflow targeting MPSoC.

2011 **Research Intern**, *CITI-Inria, INSA Lyon*, Lyon, France.
Implementation of cryptographic primitives on wireless sensor node.

2010 **Engineer Intern**, *FH Electronics*, Orléans, France.
Design of electronic fuel injection control board.

Teaching

Undergraduate **Architecture, Algorithmic and Databases.** *Lab teaching and examination design*

Skills

Hardware **Design and implementation.** *Experiments on FPGA technology*

Compilation **Back-end for heterogeneous MPSoC.** *Complete design and implementation*

Network **CAN, SPI, 802.15.4, LTE-Advanced.** *PHY layer development*

Modeling **Dataflow model of computation.** *Theory and implementation in a compiler*

Application **Signal processing, Software Defined Radio, Cryptography.**

Languages

French **Native**

English **Fluent** *1 semester at University of Texas at Dallas*

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Publications

Thesis manuscript

2014 Mickaël Dardaillon. "Compilation d'application flot de données paramétriques pour MPSoC dédiés à la radio logicielle". PhD thesis. Lyon, France: INSA Lyon, Nov. 2014

Book chapters

2014 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Cognitive Radio Programming Survey". In: *Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management*. Ed. by Naima Kaabouch and Wen-Chen Hu. IGI Global, Oct. 2014

International conferences

2014 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "A Compilation Flow for Parametric Dataflow: Programming Model, Scheduling, and Application to Heterogeneous MPSoC". in: *International Conference on Compilers, Architecture and Synthesis for Embedded Systems (CASES)*. New Delhi, India, Oct. 2014

2012 Mickaël Dardaillon, Cédric Lauradoux, and Tanguy Risset. "Hardware implementation of the GPS authentication". In: *International Conference on Reconfigurable Computing and FPGAs (ReConFig)*. Cancun, Mexico, Dec. 2012, pp. 1–6

Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, and Antoine Scherrer. "Software defined radio architecture survey for cognitive testbeds". In: *International Wireless Communications and Mobile Computing Conference (IWCMC)*. Limassol, Cyprus, Aug. 2012, pp. 189–194

Research report

2013 Mickaël Dardaillon, Kevin Marquet, Jérôme Martin, Tanguy Risset, and Henri-Pierre Charles. *Cognitive Radio Programming: Existing Solutions and Open Issues*. Tech. rep. 8358. Inria, Sept. 2013. URL: `http://hal.inria.fr/hal-00859467`

National conferences and workshops

2015 Mickaël Dardaillon. "Compilation of Parametric Dataflow Applications for Software-Defined-Radio-Dedicated MPSoCs". In: *Design of Robotics and Embedded systems, Analysis, and Modeling Seminar (DREAMS)*. U.C. Berkeley, California, Feb. 2015. URL: `http://embedded.eecs.berkeley.edu/seminar/#77d07f`

2014 Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Contrôle d'application flot de données pour les systèmes sur puces : étude de cas sur la plateforme Magali". In: *Conférence en Parallélisme, Architecture et Système (ComPAS)*. Neuchâtel, Switzerland, Apr. 2014

Mickaël Dardaillon, Kevin Marquet, Tanguy Risset, Jérôme Martin, and Henri-Pierre Charles. "Compilation for heterogeneous SoCs : bridging the gap between software and target-specific mechanisms". In: *Workshop on High Performance Energy Efficient Embedded Systems at the international conference on High Performance and Embedded Architecture and Compilation (HiPEAC)*. Vienna, Austria, Jan. 2014

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