PhD in Real-Time Networks/ENSIMAG engineer

Thomas FERRANDIZ

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Education

11/2007 - 02/03/2012	PhD in Computer Science at ISAE, Toulouse Controlling network latencies in on-board SpaceWire networks PhD thesis conducted in partnership with the CNES and Thales Alenia Space
2006-2007	Master Degree "Systems and Software", Univ. J. Fourier (Grenoble, France)
2004-2007	Engineer Degree in Computer Science at ENSIMAG
2002-2004	Preparation for competitive entrance to French Engineering School
2002	Scientific Baccalaureate
	Work Experience
2008-2011	 Teaching Assistant JAVA courses at ENSICA (1st year student) and INSA (4th year student) SpaceWire course at ENSICA (3rd year student)
2007 (6 months)	 Internship at the Laboratoire d'Informatique de Grenoble (LIG) Simulation of data duplication strategies for the Large Hadron Collider computing grid Achievements: Design and implementation of a simulator in C based on the SimGrid framework Implementation of the data duplication strategies in Perl on Grid5000 to validate the simulations
2006 (3 months)	Internship at the Institut Laue-Langevin (Grenoble) Test and integration of a workflow software based on J2EE
	Languages
	 French: native speaker English: Good level (TOEIC: 950/1000) German: basic level
	Technical skills
Programming	Java, C, Ocaml, Perl
Systems	Unix, Linux, Windows, Mac OS X
Software	Eclipse, Matlab, Word, Excel, LateX
Other	SpaceWire, performance evaluation, simulations
	Main steps of the PhD
	 Bibliography of the worst-case analysis methods for wormhole networks Development of a turn-by-turn simulator of a SpaceWire network in Java

- Design and implementation of several delay computation methods
- Analysis of a reference network architecture provided by Thales Alenia Space