

# Benjamin ROUXEL

## WORK EXPERIENCES

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NOVEMBER 2023 –

StatInf, Paris (FR)  
*VP R&D*

Statistical timing analyses tools starting from WCET to scheduling. Research team management. Development team co-management.

NOVEMBER 2021 – NOVEMBER 2023

Hipert Lab, University of Modena (IT)  
*Post-Doctorat*

Research targeting embedded real-time systems towards heterogeneous architectures focusing on the scheduling part. Research team management.

MARSH 2019 – SEPTEMBER 2021

PCS group, University of Amsterdam (NL)  
*Post-Doctorat*

Research targeting embedded real-time systems to minimize energy consumption, improve security while meeting timing constraints at schedule time. H2020 Team-Play.

JULY 2011 – AUGUST 2012

Sogeti, Rennes (FR)  
*Web Developer and Dev. Ops*

B2B web application development with common web tools using frameworks Symfony and JQuery. System administrator on Debian server who handle more than 100 requests/sec

DECEMBER 2010 – JUNE 2011

Cordon Electronics, Dinan (FR)  
*Web Developer*

ERP-like web tool to follow electronic products on reparation lines located in 7 countries and used by around 1500 employees each day.

OCTOBER 2008 – DECEMBER 2010

Nameshield, Angers (FR)  
*Full-Stack Developer*

Perl expert by designing a full application to manage domain names with all the international domain name registries. Perl application conception and development to collect data on many servers to profile clients. Web applications maintenance.

## SOFTWARE SKILLS

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ADVANCED	C, C++, GNU/gcc, clang/llvm, Perl, OCaml, PHP, JavaScript, HTML, CSS, SQL, shell, Makefile, CMake GNU/Linux, XML tech., ILP solvers
INTERMEDIATE	L <sup>A</sup> T <sub>E</sub> X, PL/SQL, Java, Boost, git, Apache, Xtext, CoreSight
BASIC LEVEL	Python, GTK+/GObject, subversion, Tomcat

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## EDUCATION

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2015 – 2018	<b>PhD Degree in Computer Science</b> <i>University of Rennes 1 (FR)</i>
2013 – 2015	<b>Master Degree in Computer Science – Research and Innovation</b> <i>University of Rennes 1 (FR)</i>
2012 – 2013	<b>Bachelor Degree in Theoretical Computer Science</b> <i>University of Rennes 1 (FR)</i>
2007 – 2008	<b>Bachelor Degree in Applied Computer Science</b> <i>University of Maine, Laval (FR)</i>
2005 – 2007	<b>Higher National Diploma in Computer Science</b> <i>University Paul Sabatier, Toulouse (FR)</i>
2005	<b>Higher Leaving Certificate in Electronics Sciences</b> HIGH SCHOOL DIPLOMA <i>Les Rimains, Cancale (FR)</i>

## INTERNSHIPS

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	2015 (5 MONTHS)
INRIA - Loria, Nancy (FR) <i>Trainee Researcher</i>	
Combining static and dyn. analyses to build a x86 disassembler with indirect call inference for malwares. ANR BINSEC.	
	2014 (4 MONTHS)
INRIA - Iriisa, Rennes (FR) <i>Trainee Researcher</i>	
Modifying LLVM compiler to propagate a priori known informations about infeasible paths through compiler optimizations thus tightening estimated WCET.	
	2008 (3 MONTHS) AND 2007 (4 MONTHS)
- Military base of long island, Brest (FR) - University of Godollo (HU)	
<i>Trainee Developer</i>	

## COMMUNICATION SKILLS

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FRENCH	Native speaker
ENGLISH	Oral: advanced – Written: advanced
ITALIAN	Oral: intermediate – Written: beginner