

# Benjamin ROUXEL

## WORK EXPERIENCES

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MARSH 2019 – APRIL 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 TeamPlay.

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.

## INTERNSHIPS

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2015 (5 MONTHS)

INRIA - Loria, Nancy (FR)

*Trainee Researcher*

Combining static and dyn. analyses to build a x86 disassembler with indirect call inference for malwares. ANR BINSEC.

2014 (4 MONTHS)

INRIA - Irista, Rennes (FR)

*Trainee Researcher*





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)

*Trainee Developer*

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 benjamin@lexuor.net  
 <https://www.lexuor.net>

## EDUCATION

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2015 – 2018 **PhD Degree in Computer Science**

*University of Rennes 1 (FR)*

2013 – 2015 **Master Degree in Computer Science – Research and Innovation**

*University of Rennes 1 (FR)*

2012 – 2013 **Bachelor Degree in Theoretical Computer Science**

*University of Rennes 1 (FR)*

2007 – 2008 **Bachelor Degree in Applied Computer Science**

*University of Maine, Laval (FR)*

2005 – 2007 **Higher National Diploma in Computer Science**

*University Paul Sabatier, Toulouse (FR)*

2005 **Higher Leaving Certificate in Electronics Sciences**

HIGH SCHOOL DIPLOMA  
*Les Rimains, Cancale (FR)*

## COMMUNICATION SKILLS

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FRENCH Native speaker

ENGLISH Oral: advanced – Written: advanced

## 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  $\LaTeX$ , PL/SQL, Java, Boost, git, Apache, Xtext, CoreSight

BASIC LEVEL Python, GTK+/GObject, subversion, Tomcat