

# Julien Delange

46 rue Barrault  
Département Infres  
75013 Paris  
France

Tél. : +33 6 64 89 57 39  
E-mail : [julien@gunnm.org](mailto:julien@gunnm.org)

## Education

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- 2007-2010      **PhD candidate** - Telecom Paris (ENST), Paris
- Safety and security in distributed, real-time, embedded systems
  - *Advisors* : Laurent Pautet (ENST) and Fabrice Kordon (LIP6)
  - *Keywords* : architecture, modeling, embedded, safety, security
- 2005-2007      **Master of Science in Computer Science** - UPMC, Paris
- *Major* : real-time, embedded and distributed systems.
  - *GPA* : 15.47/20, graduated with honors
  - *Ranking* : 1st in a class of 30
- 2004-2005      **Master of Science in Computer Science** - Marne la Vallée, France (93)
- 2003-2004      **Bachelor of Engineering in Computer Science** - Le Havre, France (76)

## Professional background

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- April–September 2007      **Ecole Nationale Supérieure des Télécommunications (ENST)** – Code-generation for real-time, embedded systems – Internship
- Implemented a code-generator that outputs C code from AADL architectural models
  - Designed a runtime (written in C) for the generated code, compliant with the rules of the Ravenscar profile
  - Published work in ERTS conference (see <http://www.erts08.org>)
- May–August 2006      **Google Summer of Code** – Developer for the nmap project (<http://www.insecure.org>)
- Designed and implemented a web application for using nmap in a web-browser
  - Communication with other developers of the project
- May–July 2005      **Mandriva (formerly Mandrakesoft) Consultant**
- Developer on *Pulse* project (automatic installation and deployment)
  - Lead developer on *Aden* project (see <http://www.africaden.net>) : integration with Mandriva OS, communication with customers and development.
- September 2004      **Pommes Teaching activities**
- *Teach courses on Mac OS X*
  - Organize, write and teach courses on Mac OS X for Pommes' employees.
- June–July 2004      **Edge-IT / Mandrakesoft Research and development**
- *Development of installation procedures for Edge-IT's products*
  - Design specific installation procedures
  - Integration with Mandriva's installation program

## Teaching activities

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- 2007–Present **Teacher assistant at Ecole Pour l'Informatique et les Techniques Avancées (EPITA)**
- *Modeling embedded real-time systems* course : learn AADL, system's verification using architectural models and code-generation from AADL to low-level languages
  - *Embedded and real-time systems in real environment* course : organize projects on real-time embedded systems (OS development in embedded environment, real-time middleware, etc.)
  - *Synchronous programming language* course : teach Lustre and Esterel language and understand system's verification using these languages.
  - *Coordinator of the GISTR section* : manage student's projects, organize activities for students, etc.
- 2007–Present **Teacher assistant at Ecole Nationale Supérieure des Télécommunications (ENST)**
- Assistant on students' projects : help student to design and implement their projects (mostly written with Java)
  - Assistant in embedded and real-time courses : help student in their practical works

## Past projects

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- 2004–2006 **Tuxfamily.org** *Hosting services*
- Manage the hosting platform and the administrator team
  - Founder and chairman of the Tuxfamily association
  - Talks in conferences closed to the free-software community
- 2004–2006 **Vhffs** *Virtual Hosting For Free Software* : <http://www.vhffs.org>
- Design and create hosting software that manages customers resources (website, code repositories, mails, domains, etc.)
  - Installation and deployment in Tuxfamily's infrastructure.
- 2003–2006 **Debian** *Developer*
- Package and modify third-party software to integrate them in Debian's Operating System.

## Skills

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- Topics** Embedded and real-time software. Kernel and middleware design.
- Administration** Web (Apache), DNS (Bind), Mail (Postfix/Exim), FTP (ProFTPD/PureFTPD), Databases (Oracle, MySQL, PostgreSQL). OS : Unix (\*BSD, Solaris, Linux, ...), MacOS and Win32.
- Languages** C, Ada, ASM (x86), Ruby, Java, Perl, PHP,  $\LaTeX$ , shellscript, SQL, XML (xpath, xquery). Synchronous languages (Lustre and Esterel).

## Activities and interests

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- Hobbies** Music, cinema, video games and reading
- Travel** Recent trips to Thailand and Spain