

# Resume - Christophe Delord

## Personal data

Christophe Delord  
4 rue du Lac d'Oô, 81370 Saint Sulpice, FRANCE  
web: <http://cdelord.fr>  
45 year old

## Experience

Computer science

**Computer Science Engineer**  
**Post Graduate Degree in Artificial Intelligence**  
**ENSEEIH**

22 year experience (artificial intelligence, embedded computers, real time, avionics, automotive...)

## Technical Skills

Functional languages  
Logic languages  
Imperative/object languages  
Low level languages  
Script languages  
Operating systems  
Documentation

Haskell, OCaml, LISP  
PROLOG  
C, Lua, Python, C++  
assembly, 80x86, SHARC, PowerPC, PIC32  
Bash, Perl, Python, Lua  
UNIX, GNU/Linux, Debian, Fedora  
Markdown, reStructuredText, Pandoc, LaTeX, HTML

## Experiences - free softwares

[PP](#), [ABP](#)  
[Modelling and simulation using functional programming](#)  
[Personal web site](#)  
[TPG](#), [SP](#)  
[BonaLuna](#)  
[PyLog](#)  
[PopF](#)

**Text preprocessor** designed for [Pandoc](#), Markdown and reStructuredText written in [Haskell](#)  
**Modeling, simulate and verify critical real time systems** with functional languages ([Haskell](#)) written with Markdown, Pandoc, make and Python, [free software](#) items  
**Syntactic parser generators** - Python  
**Compact Lua extension** - multi platform (GNU/Linux and Windows), C and Lua  
**First order logic and PROLOG in Python**  
**Unsolicited Emails Filtering** - Bayesian filter, POP3 proxy, Python

## Professional Experience

Feb. 2017 - ...  
**EasyMile.**  
Real-time embedded software, Sensor and environment simulation (C, Haskell, Lua, Python, Ethernet, CAN, Linux)

Studies  
**Sopra**  
Usage of functional languages (Haskell, OCaml, F#) to model real time embedded systems  
Genetic algorithms applied to automatic unit test generation

Aug. 2015 - Jan. 2017  
**Sopra**: real time simulation  
Airbus: real time simulation for flight computers integrated to the global A380 simulator (Simics, Power PC, Linux, AFDX)

Sept. 2014 - Jan. 2017  
**Sopra**: Flight tests  
Airbus: Wi-Fi network optimisation, Real time Linux OS, update of the acquisition and analyzing system of the flight recorded data

Feb. 2014  
**Sopra**: Experimentation with Microchip PIC32

Jan. 2015 - June 2015  
Airbus: study of a real-time architecture for flight test data acquisition modules (PIC32, clock synchronization)  
Sopra Spain, Fermax (Valencia): Feasibility study of a VoIP intercom

Oct. 2013 - Mar. 2014  
**Sopra**: Qualified ARINC 665 load generator  
Thales Avionics: Design and code in C, Generic data formatting system

Sept. 2012 - Aug. 2014  
**Sopra**: Real-time modular test bench (configurable by Python scripts)  
Thales Optronique: design, code and tests. Real-time kernel in C++ (Windows, RTX), generic I/O modules, configuration and behaviour of the kernel and modules in Python (embedded interpreter)

Apr. 2012 - Oct. 2012  
**Sopra**: Onboard Maintenance System (OMS) simulator, DO-178B, Python  
Liebherr Aerospace: design, code and test of an OMS (ARINC 604 simulator in Python, ARINC 429 interface), Python scriptable test environment, LRU simulation for validation purpose, automatic documentation generation in Python and reStructuredText (Sphinx, test results, traceability)

May 2001 - June 2014  
**Sopra**: real-time embedded software, DO-178B  
Liebherr Aerospace: assisted unit test generation in Python for RTRT  
Thales Avionics: A320 Flight Control computer, specification, design, code, tests  
Airbus: A380 and A320 Flight Control computer, specification, design, code, tests (France, training of an Indian team)  
Airbus: microprocessor simulation (Python, graph, WCET computation, stack analyzer)  
Airbus: safety studies

Oct. 1998 - May 2001  
**Sopra**  
CNRS, Pierre Fabre Laboratories: databases

## Education

1997 - 1998  
**ENSEEIH - IRIT**: Post Graduate Degree in Artificial Intelligence  
Publication: Speech acts and dialog games (Colloque Intelligence Artificielle et Complexité, Université Saint Denis, Paris VIII)

1995 - 1998  
**ENSEEIH**: Computer Science Engineer

## Langues

French  
English

Native Speaker  
Intermediate

## Links

Full resume  
HTML: <http://cdelord.fr/cv/cv.fr.html> - PDF: <http://cdelord.fr/cv/cv.fr.pdf>