

Resume - Christophe Delord

Personal data

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

Experience

Computer science
Computer Science Engineer
Post Graduate Degree in Artificial Intelligence
ENSEEIH
23 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
Version control
Documentation
Safety-critical standards

Haskell, OCaml, LISP
PROLOG
C, Lua, Python, C++
assembly, 80x86, SHARC, PowerPC, PIC32
Bash, Perl, Python, Lua
UNIX, GNU/Linux, Debian, Fedora
Git
Markdown, reStructuredText, Pandoc, LaTeX, HTML
DO-178B (avionics), ISO 26262 (automotive)

Experiences - free softwares

[PP](#), [ABP](#), [Panda](#), [UPP](#)
[Modelling/simulation](#)
[Personal web site](#)
[TPG](#), [SP](#)
[BonaLuna](#)
[PyLog](#)
[PopF](#)

Text preprocessor designed for [Pandoc](#), Markdown and reStructuredText written in [Haskell](#) and [Lua](#)
Modeling, simulate and verify critical real time systems with functional languages ([Haskell](#))
written with Markdown, Pandoc, make and Lua, [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

Patents

Dec. 20, 2019
Method and system for handling blind sectors of scanning layers of redundant sensors in a vehicle. See patents.google.com or patents.justia.com

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 formating 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>