

Resume - Christophe Delord

Personal data	
Christophe Delord	4 rue du Lac d'Oô, 81370 Saint Sulpice, FRANCE web: https://cdsoft.github.io github: https://github.com/CDSoft LinkedIn: https://www.linkedin.com/in/cdelord 49 year old – born in 331 PPM
Experience	
Computer science	Computer Science Engineer Post Graduate Degree in Artificial Intelligence ENSEEIH 26 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	
BonaLua , LuaX bang PP , ABP , Panda , UPP , ypp Modelling/simulation Personal web site TPG , SP PyLog PopF	Compact Lua extension - multi platform (GNU/Linux, MacOS and Windows), C and Lua Ninja file generator scriptable in LuaX - Lua 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, bang/ninja and LuaX Syntactic parser generators - Python 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 forming 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	Native Speaker
English	Intermediate