

# RESUME - CHRISTOPHE DELORD

## Personal data

Christophe Delord  
**Software Engineer**  
Age: 36 year old  
Email: [cdelord@cdsoft.fr](mailto:cdelord@cdsoft.fr)  
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## Experience

Computer science  
**Computer Science Engineer**  
**Post Graduate Degree in Artificial Intelligence**  
**ENSEEIH**  
13 year experience (artificial intelligence, natural language processing, specification, design, unit testing, integration, validation, embedded computers, ...)

## Technical Skills

Programming Java, C/C++, Eiffel, Ada, Pascal, FORTRAN, LISP, CaML, Prolog, Assembly (80x86, 680x0, SHARC), PL/M, HTML, Javascript, Perl, Python, Lua, TCL...  
Architecture Intel (80x86), Motorola (680x0), VHDL, SHARC (2106x), PowerPC (MPC5554)  
Operating Systems UNIX, Linux (Shell, Perl, Python, Tcl/Tk, C, ...)  
Publishing LaTeX, ReStructured Text

## Professional Experience

Jan. 2011 - present  
**Sopra Group for Airbus. Toulouse.**  
Flight Control SECondary Computer (A350) (CMM level 3, DO-178B level A, Sharc Assembly, unit testing, integration, validation, JScript, Perl, Python, C, DSP simulation for performance and robustness validation).  
Microprocessor simulation (time and stack usage measure, Python, Optimized graph searched)

Jun. 2008 - Jan. 2011  
**Sopra Group for Thales Avionics. Toulouse/Paris.**  
A320 flight control secondary computer redesign (DO-178B level A and D, MPC5554, Assembly, C and ADA, Specifications, Design, Code).

Mar. 2007 - Oct. 2008  
**Sopra Group for Airbus. Toulouse.**  
Specification of an embedded Onboard/Ground communication system for Airbus (Wifi, GSM, VPN, ...).

Jan. 2007 - Feb. 2007  
**Sopra Group for Airbus. Toulouse.**  
Unit testing for an Airbus embedded calculator (A400M), training of a testing team in India.

Jan. 2007 - Jul. 2007  
**Sopra Group. Toulouse.**  
TOPCASED: Toolkit in OPen-source for Critical Application and SystEms Development, Safety study. Contribution to the AESE conference for the centenary of ENSEEIH.

Nov. 2006 - Dec. 2006  
**Sopra Group for Airbus. Toulouse.**  
Flight Warning Computer (A400M), coding rules and unit testing (DO-178B, Level B).

Mar. 2002 - Oct. 2006  
**Sopra Group for Airbus. Toulouse.**  
Flight Control SECondary Computer (A380) (CMM level 3, DO-178B level A, Sharc Assembly, unit testing, integration, validation, TCL, Perl, Python, C, DSP simulation for performance and robustness validation).  
Microprocessor simulation (time and stack usage measure, Python, Optimized graph searched)

Oct. 2001 - Mar. 2002  
**Sopra Group for Airbus. Toulouse.**  
Flight Control Primary Computer (A330/340) Validation (DO-178B, Level A, Intel Assembly).

May 2001 - Oct. 2001  
**Sopra Group for Airbus. Toulouse.**

Update of the Flight Warning System (A340) for a certification, update of the software life cycle (DO-178, Intel Assembly, PL/M, ADA).

Jul. 1999 - May 2001

**Sopra Group for Pierre Fabre Laboratories. Castres.**

Communication between data bases and distant PC (Unix, Shell, Perl, C).

Oct. 1998 - Jul. 1999

**Sopra Group for CNRS. Labège.**

Correction and evolution of the "Accounting and Financial Management" application of the CNRS.

1997 - 1998

**ENSEEIH-IRIT. Toulouse.**

DEA training period and ENSEEIHT 3rd year: Modeling of the cognitive process of dialogue (Prolog, Speech Acts, ...).

### Personal/Student Projects

1997 - 1998

**ENSEEIH- 3rd year Student**

ENSEEIH/DEA training period (human dialogue simulation).

1996 - 1997

**ENSEEIH- 2nd year Student**

Compilation of a subset of C-language, execution in a virtual machine (Eiffel, C)  
Object oriented design and programmation (Eiffel)  
Expert Systems, Predicate Logic (Prolog)  
Operating systems, client/server (HTTP server) (Unix, C)  
Hardware (calculator, pipeline, ...) (VHDL)

1995 - 1996

**ENSEEIH- 1st year Student**

Hardware, microprocessor (and biprocessor) design and simulation in C++ (as a personal project)  
Cryptography (C)  
Expert Systems (Lisp)

PopF

**Unsolicited Emails Filtering**

Statistical filter, POP3 Proxy

PyLog

**First order logic and PROLOG in Python**

First order terms and variables, PROLOG inference engine, PROLOG to Python translator

TPG

**Toy Parser Generator**

a lexical and syntactic parser generator for Python (Recursive descendant parser, Attributed grammars, Abstract syntax tree building).

SP

**Simple Parser**

another lexical and syntactic parser generator for Python (Recursive descendant parser, Backtracking, Functional Programming, Abstract syntax tree building).

BonaLuna

**Lua extention**

a small, standalone and extensible Lua interpreter providing portable scripting features for Windows and Linux.

Taxia

**Embedded computers in a taxi**

Event programming, Gui, C++, assembly.

Hardware, simulation

**Biprocessor simulation (see 1st year)**

(C++, HP48), Schip-48 virtual machine and disassembler (C)

### Other Experiences

Summer 1993

Development of a data-base software for pupil registration management

1993 - 1998

Private lessons (Mathematics, Physics, Computer Science)

### Education

1997 - 1998

**Post Graduate Degree in Artificial Intelligence**

ENSEEIH-IRIT, Toulouse

1995 - 1998

**Computer Science Engineer (10th)**

ENSEEIH, Toulouse

1998

**Test Of English for International Communication (820/990)**

Toulouse

1994 - 1995

**Two year degree in Mathematics and Physics**

Paul Sabatier University, Toulouse

1994

**Cambridge Examinations (First Certificate in English)**

Lycée Pierre de Fermat, Toulouse

1993 - 1994

**Preparatory classes**

Lycée Pierre de Fermat, Toulouse

### **Publications**

Sep. 1998

**Christophe Delord. Actes de langage et jeux de dialogue.**

Human dialogue simulation. ENSEEIHT-IRIT, Toulouse, France

Sep. 1998

**Christophe Delord. Actes de langage et jeux de dialogue.**

Introduction of a human dialogue simulation model. In Colloque Intelligence Artificielle et Complexité (I.A.C'98), Saint Denis University - Paris VIII

### **Languages**

French

Native Speaker

English

Intermediate

German

Working Knowledge