Olivier ARSAC

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COMPUTER SCIENCE PHD
COMPUTER SCIENCE ENGINEER

COMPUTER SKILLS

- Strong practice of **Unix software development :** emacs, ddd, purify, insight, CVS, …
- Programming experience in : **C**, **C++**, **JAVA**, **LISP**, **ADA**, **Perl**, ***sh**, ...
- Practice of **HTML**, **XML** and **OpenMath**.
- Hardware and software **Unix system administration** : Digital-Unix, Solaris, Linux, **...**
- Theorical and practical knowledge of **parallelism** and **distributed** computations (parallelisation of numerical computation libraries, distribution of AI on heterogeneous clusters).
- Good skills in GUI : **XLib**, **Motif**, **AWT**, **OpenGL**, **Tk**, ...
- Strong personal interest in **computer graphics** : ray-tracer implementation, OpenGL for scientific visualisation.

PROFESSIONAL EXPERIENCE

1997-1999 **Expert Engineer**

Design of the OpenMath **specification**. **Development** and **support** for the proof of concept implementations in C, C++ and Java. OpenMath is an XML compliant high level **protocol** for lossless mathematical object exchange. Hosted by CAFE team at INRIA.

1993-1997 **Computer Science PhD**

Design and **implementation** of Emath, a highly customizable software component for mathematical object edition. Practice of **UNIX system programming** : shared memory, sockets, multi-threading, embedded interpretors, dynamic loading, … (C, Lisp, Xt, Motif, Tcl-TK)

1993-1997 **System administration**

Hardware and software administration for UNIX workstations (Solaris, Digital-Unix, Linux, ...). Strongly involved in tests and deployment of the new PC/Linux workstations and clusters. (Perl, ksh, SML…). Three years training (one day per week) at SEMIR, INRIA.

1993 Design and implementation of a new algorithm animation package (Agat). This tool provides **graphical animations** that allow a deeper insight into complex algorithm behaviors. (C, Xlib, Lex, Yacc). Six months training hosted at INRIA by SAFIR team.

1992-1993 Design and implementation of a satellite **image processing** tool. This software composes new images using mathematical expression analysis. (C, Motif, Lex, Yacc). Mid-time six months training, for GEOIMAGE.

1992 Design and implementation of a **3D mesh visualization** software for the SINUS research project at INRIA. (C, Motif). Two months training.

EDUCATION

1993-97	Computer Science **PhD**	*University, Nice Sophia-Antipolis*
1990-93	Computer Science **Engineer** diploma	*ESSI, Sophia-Antipolis*
1993	**Master Degree** (DEA) in Computer Science	*University, Nice Sophia-Antipolis*
1988-90	DEUG A, Mathematics and Physics	*University, Orléans*

LANGUAGES

English	Fluent
French	Mother tongue
German	Scolar