Olivier Koch   Software Engineer

22 years	koch@graphics.lcs.mit.edu	550 Memorial Drive Apt #2E3
French citizenship	617-225-8899	Cambridge, MA USA

Objective : to integrate a team working in the field of computer graphics to learn new technologies and improve my technical skills, available 10/2002.

EXPERIENCE

Massachusetts Institute of Technology   **Cambridge, MA USA**

Computer Graphics Group   *Since 04/2002*

Integrated in the City Scanning Project Team (reconstruction of a textured 3D model of an urban environment from calibrated real-world imagery). Parallelization of the most CPU-consuming stage.

Visiting scholar
- Validated the code and improved robustness
- Developed parallel algorithms with MPI on IRIX
- Worked on camera calibration refinement
- Proposed ideas about possible future works

Final results: x15 speed-up in computation time.

Paris VI University of Jussieu   **Paris, France**

Lab for Dynamical Meteorology   *05/2001-06/2001*

Integrated in the Climate Dynamical Modelization Team (statistical analysis of Southern Hemisphere Climate simulations).

Intern
- Analyzed several set of simulations using cluster analysis tool
- Classified simulations into relevant modes
- Compared relevancy of different models

Final results shared with Centro de Investigaciones del Mar y la Atmosfera (Buenos Aires)

Necker Hospital   **Paris, France**

Department of Diabetology   *11/2000-04/2001*

Member of a 3-student team involved in the conception and installation of an Access 2000 database.

Student
- worked on databases specifications
- developed the statistical tool for patient analysis on Excel
- Wrote-up the user manual for the database

EDUCATION

10/2002	Graduate level from Ecole Nationale Superieure de Techniques Avancees (French engineering school) Major : **Computer science**
09/1997-09/1999	Preparatory classes to the competitive entrance to the French "Grandes Ecoles" in Paris.

COMPUTER SKILLS

Operating systems	Linux, UNIX (Irix), Windows 98/2000
Languages	C/C++, Java, Perl, Fortran 77/90, Visual Basic Access.

LANGUAGES

French	Native speaker
English	Fluent : 6-month stay in the US – TOEFL : 253/300
German	Good level : pen-pal in Germany
Spanish	Basic level (2 years of study)

MISCELLANEOUS

09/2000-07/2001	Private lessons in maths and physics at Association for Children from Mekong, Paris.
07/1997	Camp chief in a Boy Scout Summer Camp in Normandy (15 boys, 10 days)

HOBBIES

Photography	President of the Photo club at ENSTA, 2001. Like shooting wide-angle urban pictures in Black & White.
Music	Trumpet and piano, 7 years of study (including 5 years in conservatory) Played in a Jazz Band for 3 years (1999-2001)
Reading	Paul Auster, John Irving, David Lodge, Albert Camus

REFERENCES

Pr. Seth Teller
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