

## Michaël SDIKA

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## ENSEEIH T Engineer

*Computer Science and*

*Applied Mathematics*

### Education

- 2001-2002 **ENSIMAG**: DEA (Postgraduate Degree) computer graphics, computer vision, robotics.  
1998- 2001 **ENSEEIH T**: Engineer (master degree) in **computer science and applied mathematics**.  
1996-1998 Lycée Janson de Sailly, Paris : “Mathématiques Supérieures et Spéciales“ section MP\*.
- 2003-2004 Grenoble University: “**Maitrise**” of **fundamentals mathematics**, (master) with honors.  
1998- 2001 Toulouse University: “**Licence**” of **fundamentals mathematics**, with honors.  
1996-1998 Paris VII University: “**DEUG MIAS**”, (**mathematic, computer science**), with honors.

### Skills

**Operating System** : Linux (Debian/Red Hat/Mandrake) , Solaris, HP-UX, Windows 9x/2000

**Computer Science Languages** : C, C++, Java, Fortran 77/90, Matlab/Scilab, schell, Eiffel.

**Applied Mathematics** : Mathematic Programming, Ordinary/Partial Differential Equation, Computer Vision, Computer Graphics, Image Processing , Automatic Learning, Data Mining

**Computer Science** : Software Engineering (UML), Distributed Systems/software, Corba, Real time software.

**Software Library** : lapack (linear algebra), Diffpack (PDE), qt (GUI), Java sdk, STL (C++)

**Language** : **French**, Native speaker

**English** (read, wrote, spoken), 790 at the TOEIC exam. Every day use for my current job.

### Professional Experiences

- 2002 **Temporary Contract (1.5 year) : Expert Engineer, INRIA’s LEAR team** (Learning and Recognition) Image matching, indexing, interest point detector, application and library development (C++)  
System Engineer (Linux Mandrake).
- 2003 **Temporary Contract (2 months): Engineer, LRMN** (Nuclear Magnetic Resonance Laboratory)  
Software optimisation of generator of NMR spectroscopic signals (Java, Fortran)
- 2002 **Temporary Contract (3 month) : Engineer at the LET** (Economics of Transports Laboratory)  
Simulation of the dynamics of urban transports (C, Scilab, Vensim)
- 2001-2002 : **DEA training period at INRIA** : Computation of the maximum entropy distribution in application to cognitive science, development of a C++ mathematical program software.  
**Teaching** in mathematics at the Claude Bernard University of Lyon
- 2000.2001 : **Engineer Training period at Sigma-plus** (Toulouse) :  
Development of finite elements simulators in C++ using the Diffpack library,  
Wording of a user guide for the library,  
Diffpack presentation at the SMAI congress (Pompadour, June 2001)

summers 1996 et 1999 : **working employment** at IBM Essonnes and Motorola Toulouse

## **Publication**

Time-Domain Semi-Parametric Estimation based on a Metabolite Basis Set, H. Ratiney, M. Sdika, Y. Coenradie, S. Cavassila, D. Von Ormondt, D. Graveron-Demilly, NMR in Biomedicine, 2004 (in press); 17:1-13

## **Hobbies**

1998-1999 : Organization of 5 concerts (Classical Concert of “FESTIVAL N7”...)  
Research of sponsors, musicians, funds...

Music : Guitar (10 years of practice)