Mathias BAVAY

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French citizenship

Education and Qualifications

09/1999-07/2002 (3 years)	PARIS XI UNIVERSITY – CENTRE D'ÉTUDES DE GRAMAT. **PH.D.** IN PLASMA PHYSICS AND PULSED POWER - SUMMA CUM LAUDE. *Numerical simulation, experimental design, theoretical and numerical interpretation of experiments.*
1998-1999 (1 year)	PARIS XI UNIVERSITY. UNIVERSITY **DEA** DIPLOMA: PHYSICS AND TECHNOLOGIES OF LARGE FACILITIES - CUM LAUDE. *Large scientific facilities engineering.*
1996-1999 (3 years)	SUPÉLEC ENGINEER (FRENCH NATIONAL SCHOOL OF ELECTRICAL ENGINEERING). *Two common-core years (electricity, electronics, computer science) and then specialization by the DEA.*
1994-1996 (2 years)	LYON I UNIVERSITY. UNIVERSITY **DEUG A** DIPLOMA - MAGNA CUM LAUDE. *equivalent to AS degree*

Previous experience

12/2006-	WSL INSTITUTE FOR SNOW AND AVALANCHE RESEARCH DAVOS (DAVOS, SWITZERLAND). PHYSICIST. *code developement/maintenance for various numerical models (including operational models and toolchain). Numerical simulations for snow cover and climate change studies. Micro-meteorology.*
10/2004-11/2006	IVANHOE TECHNOLOGIES INC., (ALBUQUERQUE NM, USA). PHYSICIST. *Design and building of the Veloce pulser, code developement/maintenance.*
04/2004-09/2004	ITHPP, (THÉGRA, FRANCE). PHYSICIST. *Design of the Veloce pulser, first experiments.*
09/2002-03/2004	CRT HOLDINGS INC., (COLUMBUS GA, USA). PHYSICIST. *In charge of the experimental program (leading a team of ≈ 7 people).*
1999 (3 months)	CENTRE D'ÉTUDES DE GRAMAT (GRAMAT, FRANCE). DEA INTERNSHIP. *Theoretical study of skin depth applied to Pulsed Power generators.*
1998 (2 months)	TEK TRANSLATION (DUBLIN, IRELAND). IT MANAGER. *IT manager for the Dublin office (≈ 10 computers on the network).*

Computer skills

Software	Familiar with office automation tools, Latex, Photoshop, Gimp, Grace...
Codes	Snowpack, Alpine3D, Electrostatic codes...
Programming	C++, C, QT, awk, Bourne Shell, html, Fortran, CMake...

Languages

French	mother tongue.
English	fluent.
German	

Interests

Hiking, skiing, XXth century French and Eastern European literature, religious music (XII to XIXth centuries), caving, climbing, Open Source Software...