Xavier Danaux

Dynamic and innovative engineer/jurist

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single with driver licence

Am willing to tear down walls, build bridges, and light fires.
I have no real experience, but lots of energy, a bit of that "vision thing",
and I'm not afraid to start from the beginning.

Assets

- Soon-to-be mechanical engineer specialized in computational fluid dynamics, with a good legal education.
- Leadership skills.
- Photography and design enthusiast.
- Loves to tackle complex problems.

- Likes practicing adventure sports like skying, rock climbing and scuba diving, and has been a boy scout for five years.
- Open minded and eager to learn.
- Creative with a strong analytical mind.
- World citizen.

Education

2003–current　**Master of Science in Mechanical Engineering**, *Université catholique de Louvain*.
1st year: 82%　　2nd year: 74%　　3rd year: — (currently being assessed)

2005–current　**Master of Laws**, *Université catholique de Louvain*.
1st year: — (currently being assessed)

2003–2005　**Bachelor of Laws**, *Université catholique de Louvain*.
1st year: 70%　　2nd year: 67%

2001–2003　**Bachelor of Science**, *Université catholique de Louvain*.
1st year: 74%　　2nd year: 76%

Master thesis

title　*On the rheology of entangled polymers*

supervisors　Pr Christian Bailly and Pr Roland Keunings

description　Study of the complex behaviour of viscoelastic fluids, and in particular of entangled polymers. The study is focussed on double-step strain and recoil deformations, comparing experimental data to simulations based on recent microstructural models. Depending on the model used, numerous mathematical tools are used: numerical solving of nonlinear PDEs, stochastic equations, Monte-Carlo simulations, Fourier transforms, . . .

Experience

april 2004–current — **Administrator**, *Alterezo ASBL*, Liège.
Nonprofit association aimed at helping small organizations access modern communication tools via the internet, and promoting the use of open source solutions and open standards.
See www.alterezo.be.

2005–2006 — **Mathematics tutor**, *UCL*, Louvain-la-Neuve.
Supervision of practical sessions for a mathematical course given to second year engineering students (course *FSAB1104: Numerical Methods*).
See www.legat-online.be/b2q1/num.

2004–2006 — **Cultural project leader**, *Tchouque-Tschouk Kot*, Louvain-la-Neuve.
Leader of a student home with a cultural project, requiring day to day management as well as the organization of public events.
See www.organe.be.

1999–2001 — **IMO preselected**, *SBPMef*, Wépion.
Advanced mathematical training, as belgian preselected candidate for the International Mathematical Olympiads, selected by the Belgian mathematical society.
See imo.math.ca/belgium.html.

Languages

French — **Native**

Dutch — **Near-native** — *Primary education degree obtained in a dutch college (Sint-Jozefscollege te Sint-Pieters-Woluwe).*

English — **Very good** — *Many journeys in english speaking countries, including the United States, the United Kingdom and Kenya.*

Chinese — **Elementary** — *Following official courses at the "Institut des Langues Vivantes" (UCL), for the second year now.*

Computer knowledge

OS	Linux, Unix, MacOS, Windows	desktop	OpenOffice, StarOffice, MS Office
programmation	Java, C/C++	scripting	PHP, Shell, Ruby
scientific	Matlab, Autocad, Abaqus	typography	LaTeX, ConTeXt, Scribus, QuarkXPress
web design	XHTML, CSS, AJAX	database	MySQL, PostgreSQL
administration	Apache, Mailman		