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# Maxime MÉLOUX

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## Master of Science in Engineering (School : Ensimag)
## Engineer in Mathematical modelling, Vision, Graphics & Simulation

### + PERSONALITY

Skilled French student graduating in **2017** with a **Master of Science** in Applied Mathematics and Computer Science from a **prestigious French school** seeking a **summer internship** (8 – 13 weeks) in an IT company, where I can use my extensive skills in development. In-depth **problem-solving and analytic abilities**, **fast learning** and broad range of interests which allow me to have a comprehensive view of a problem, and enable me to work in a fast-paced environment. Highly qualified in positions requiring teamwork, with great **interpersonal communication skills**. Ambitious and innovative person, willing to put my skills to a practical use and embrace new challenges.

### + WORK EXPERIENCE

JANUARY 2016 (UPCOMING)
**School project :** In groups of five students from different programming backgrounds, realized a full compiler for the Deca language (4 weeks).

JUNE 2015
**School project :** Led a group of three students during the creation of a C library to create and manage graphical interfaces (3 weeks).

### + EDUCATION

2014 − (2017)
**Master of Science in Engineering :** Mathematical Modelling, Vision, Graphics & Simulation
Ensimag / St-Martin d'Hères (Grenoble, FRANCE)

2012 − 2013
**MP Preparatory classes to higher schools** (mathematics/physics) – computer science option
Lycée Blaise Pascal / Clermont-Ferrand (FRANCE)

2009 − 2011
**Scientific baccalauréat (French A-levels)** – European section (English)
Lycée St-Jacques de Compostelle / Le Puy-en-Velay (FRANCE)

### + LANGUAGES

**French** (Native C2 level)          **German** (B1 – B2)          **Polish** (Basics)
**English** (C1 – C2, attested B2 in 2013)     **Spanish** (Basics)     Knowledge of cyrillic script

### + CORE STUDIES

Applied Mathematics
Numerical optimization · Operations Research & Combinatorial Optimization · Numerical data management · Probabilistic models for learning · Computer aided geometric design

Computer Science
Compilation · Algorithms & Discrete Optimization · Hardware Architecture · Databases · Object-Oriented Programming · Software Engineering · Networks & Telecommunications

Other
General Economics · Business Management · Project Management · Strategy & Marketing

### + TECHNICAL SKILLS

Programming & Web languages
**C/C++, Java, Bash, Ada, Scilab/Matlab, Latex, Caml,
HTML5/CSS3, javaScript, jQuery, MongoDB, node.js** – basics in PHP
**x86/MIPS assembly, VHDL, ActionScript** – basics in Python

Operating systems
Linux (Fedora, CentOS, Ubuntu), Windows 95 − 8, Android

Software & libraries
Git, Code::Blocks, Eclipse, Vim, Notepad++, Libre/Open/Microsoft Office
R, Maple, Inkscape, GIMP, Blender, SolidWorks, Qt, GNU MP, SDL, SFML

### + HOBBIES AND OTHER SKILLS

Travelling to foreign countries (Europe : 20 countries visited). Also interested in many foreign languages.

Miscellaneous personal programming projects in C/C++, ActionScript, JavaScript/HTML 5/CSS 3, and node.js

Computer security awareness (exploits and defense), both from self-education and ethical hacking conferences/challenges (GreHack, root-me.org, newbiecontest.org...)