

## Objective : 7 month internship in computer science (may–december 2006)

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French student strongly interested in Artificial Intelligence and Robotics.

### Education

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- Since 2006** Georgia Institute of Technology (Atlanta, GA – Metz, France) .....  
Master of Science in Computer Science.
- 2004-2007** Supélec (Top French engineering school in sciences of information) (Metz, France) .....  
Graduate engineering degree in Computer Science and Electronics.  
Specialization in Computer Science and AI. **GPA : 3.95.**
- Projects
- *Shape detection for automatic calibration of cameras* (C++ Linux).
  - *Tasks planning and path planning for an autonomous robot* (C++ Linux).
  - *Digital oscilloscope with USB port* (C and Microchip assembler).
- 2002-2004** Lycée Victor Hugo (Besançon, France) .....  
Intensive Preparatory classes for the national competitive entrance examination into top French engineering schools (Mathematics, Physics and Computer Science Majors).
- Projects
- *Character recognition and prevision with neural networks* (C++).
- 1999-2002** Lycée Xavier Marmier (Pontarlier, France) .....  
2002 French High School diploma, with Honors (Scientific Majors, Mathematics specialization).
- Projects
- *Full implementation of the JPEG algorithm* (Pascal).
  - *Computer Generated Holograms* (Laureate of the **Nationwide Olympiads in Physics**).

### Experience

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- 2006** LAAS/CNRS lab, RIA dpt (Robotics and AI) (Toulouse, France) .....  
2 months
- *Bibliography, design and development of a visual tracking algorithm for an autonomous UAV.*
  - *Team working, international environment, contacts with researchers, PhD students and engineers.*
- 2005** Schrader s.a.s. (Pontarlier, France) .....  
2 months
- *3D modeling* (Inventor & Catia), with engineers, technicians and marketing people contacts.
  - *Monitoring of an automatic production line of tubeless valves, and quality control.*
- 2002 & 2003** Finalist two times of the **French Nationwide Contest in Informatics.**
- 2002** Pre-selected for the French team for the **International Olympiads in Informatics.**
- 2000-2002** Writing software distributed on my website : <http://crteknologies.free.fr> (french).

### Skills

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- Qualities** Interested in technique, good autonomy, persevering, versatile, good leadership qualities. ....
- Languages** **English** (fluent) ; **French** (native speaker) ; **Spanish** (intermediate level).
- Computer Sc.** Well experienced programmer, familiar with networks and OS (Windows & Linux) .....  
  - Proficient in *C/C++* (*Visual Studio, C++Builder, Linux*) ; Comfortable with *Java, Lisp, Pascal*.
  - Knowledge of *.NET (C#/C++)*, *Caml, Prolog, UML, XML, OpenGL, HTML, SQL, Perl, asm*.
- Electronics** Good general knowledge in digital and analog electronics (design, realization) .....  
  - *PIC microcontrollers* (*assembler & C*), *simulation & PCB design* (*Proteus, Protel, Eagle*).
- Other tools**
  - Office (*Word, Excel, PowerPoint, L<sup>A</sup>T<sub>E</sub>X, OpenOffice*)
  - Scientific (*Mathematica, Matlab*).....

### Interests and Activities

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- Strong involvement in the student organizations at Supélec :
  - **president of the Robotics Club** of Supélec, which takes part in the French Cup of Robotics,
  - member of the club *Rezo* which manages the network in the Supelec students' housing.
- Sports : mountain biking, table tennis, badminton, skiing (downhill and cross-country).
- Holder of AFPS diploma (equivalent to BLS skills).
- Reference available upon request.