Emmanuel Battesti
Robotics, Vision & Data Fusion Engineer

- **ADDRESS**

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emmanuel.battesti (at) gmail com
35 years old - driving license

- **PROFESSIONAL EXPERIENCE**

February 2010 to August 2011	**ENSTA ParisTech**, Paris. Research Engineer in cognitive robotic. - Developing trajectory generation and motion planning for autonomous car, - Developing a **VSlam** system, - Implementing in C++ and Urbi with Linux, - participating in **"Défi Carotte"** contest, - Supervision of a trainee.
November 2007 to December 2009	**IEF**, projet **LOVe**, Orsay (91). Research Engineer in data fusion. *Project about pedestrians automatic recognition by a vehicle using cameras and sensors.* - Developing multi-sensor perception system, - Detecting pedestrians with lidar data, - Searching and comparing data fusion and image processing algorithms, - Designing through C/C++ Visual Studio 2005 interface and real-time platform RTMaps.
October 2006 to October 2007	**Travel around the World**.
November 2003 to October 2006	**Imasys**, Suresnes (92). Application Field Engineer. *Application Engineer in the field of industrial and scientific imaging.* - Helping customers for vision systems, - After-sales technical solutions on imaging products - Trainer in "Theory of Imaging and Vision" one day a month - Managing the website and the Adwords campaign,
October 2001 to June 2003	**Johnson Controls**, Osny (95). Integration/validation Engineer in Automotive Diagnostic.
October 2000 to September 2001	**SAGEM**, Argenteuil (95). Test Engineer. *Flight test analysis of a Rafale monitoring and tracking system (OSF).* - Designing and developing CAN-bus data analysis tools, - Data and images analysis, anomaly detection and performance measurement.
March to August 2000	**Laboratoire Régional des Ponts & Chaussées**, Strasbourg. six-months training course. *Objects pre-detection and recognition in image database used for road management.* - Research, Algorithms, Image Processing with Khoros, C Unix Implementation - Using content-based image indexation methods.
Winter 2000	**Institut de Mécanique des Fluides**, Strasbourg. *Developing a system to analyze the motion of a ball in a liquid.* - Researching, Algorithms, Image Processing, C++ Windows implementation.
Summer 99	**Cybernétix**, Marseille. two-months training course. *Developing an automated optical bench project.* - Image Processing, C++ Windows implementation.
July 1998	**ENST**, Ecole Nationale Supérieure des Télécommunications, Paris. Four-weeks training course. *Edge detection on three-dimensional images with the Canny-Deriche recursive detector,* - Implementation in C Unix, Image Processing on MRI brain images.

- **EDUCATIONAL BACKGROUND**

1997/2000	**Ecole Nationale Supérieure de Physique de Strasbourg**. **Engineering degree**, specialization : Acquisition and Image Processing. **Université Louis Pasteur** , Strasbourg. **master's degree** in photonics and image specialization in Acquisition and Image Processing.
1997/1998	**Université Louis Pasteur**, Strasbourg. Bachelor's degree in Physics.
1994/1997	**Lycée François 1er**, Le Havre. **Mathématiques Supérieures, Mathématiques Spéciales MP** (Maths and Physics).

- **IMAGERY**

Cameras	JAI, Pulnix, Atmel, AVT
Frame Grabbers	DALSA Coreco : X64, PC2Vision
Software	RTMaps, OpenCV, SFML, Urbi.
Materials	Robot Pioneer 3, Trainer in industrial lighting and optical system

- **COMPUTER SKILLS**

Computer Languages	C/C++, STL, Boost, Unix Shell, Matlab, Php, HTML,
Operating Systems	Windows Vista, XP, Linux Fedora,
Software	Visual Studio 2008, Eclipse, CMake, SVN.

- **LANGUAGES**

French	Mother tongue
English	Good knowledge
Spanish	Basic

- **INTERESTS**

  - Photography classes, vocal jazz, oud
  - Travel, trekking,
  - Scouting during 9 years,
  - AFD: First Aid Training.