

Alexandre MONTI

Engineering student
Electronics and Automation
Critical Embedded Systems specialty

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Skills

Software

C, C++ mastered.
x86, x86_64 and ARM **assembly**.
Assembly and C or C++ **embedded** programming.
Python, Bash and Matlab.
CUDA/C powered parallelization.
Qt4/5 and OpenGL graphical user interfaces.
Embedded or GNU/Linux **OS level** programming.
Image processing and recognition.
Application-level **security**.

Hardware

Signal processing, **power** electronics.
Linear and non-linear **system control**.
Optimal and robust control, solid foundations on numerical electronics and **communication** buses : USB, CAN, I2C, SPI.
VHDL programming.

Languages

English : read, written and spoke.
French : mother tongue.

Others

GNU/Linux mastered, text processing with **L^AT_EX**.
Good knowledge of mathematics and classical physics, relativity and quantum mechanics concepts.

Professional experience

From feb. 2016
to aug. 2016

Research engineering internship : development of an application-level security tool for hacking and reverse-engineering binary protection.
École Polytechnique de Montréal, Montréal, Québec, Canada

From jun. 2015
to sep. 2015

Engineering internship : development of an embedded real-time image processing system for people recognition.
ACTIA Automotive, Toulouse (31), France

From 2012
to 2015

Home tutoring : Mathematics, Physics and Chemistry (high school level).
Home, Toulouse (31), France

Studies

From 2013
to 2016

Engineering : Electronics and Automation / Critical Embedded Systems specialty.
Institut National des Sciences Appliquées de Toulouse, Toulouse (32), France

From 2011
to 2013

Classe Préparatoire aux Grandes Écoles : Mathematics, Physics and Chemistry preparation for engineering schools.
Pierre de Fermat high school, Toulouse (31), France