



## Electronics & micro-electronics designer

### Professional experience

Electronics engineer	Since June 2011	<b>BEST ELECTRONIQUE</b>	Gevrey - Chambertin
		<b>Analog and digital system development with Ultiboard CAD system)</b>	
		<ul style="list-style-type: none"><li>- <b>LED driver and lighting system conception:</b> Power light emitting diodes PCB design Driver hardware Development Production sheets preparation</li><li>- <b>Electrochemical potentials measurement system development:</b> Design for a further industrialization</li></ul>	
Electronics engineer	2010 - 2011	<b>SAGEM DEFENSE SECURITE</b>	Dijon
		<b>Duplicating test and tuning benches for optoelectronic equipments</b>	
		<ul style="list-style-type: none"><li>- Piloting the subcontractor responsible for system manufacturing</li><li>- Hardware and software test benches validation</li></ul>	
Electronics engineer	2009	<b>INSTITUT DES NANOTECHNOLOGIES DE LYON</b>	Lyon
		<b>Digital /Analog Audio amplifier design</b>	
		<ul style="list-style-type: none"><li>- Digital modulator (FIR filters, I<sup>2</sup>S protocol) hardware implementation and simulation with Mentor® ModelSim®</li><li>- FIR Filter VHDL code generator programming in Microsoft Visual C++</li><li>- Signal processing loop characterization for Audio Precision 2722 analyzers</li></ul>	
Software engineer	2008	<b>OBERTHUR CASH PROTECTION</b>	Dijon
		<b>Design for smart security systems (money transit)</b>	
		<ul style="list-style-type: none"><li>- M16C/61 Mitsubishi microcomputer software development and modifications IAR Systems Integrated Development Environment (C language)</li></ul>	
Micro-electronics designer	2008	<b>E2V</b>	Saint Egrève
		<b>Digital to Analog Converter architecture analysis and design</b>	
		<ul style="list-style-type: none"><li>- Schematic and analog simulation with Cadence</li></ul>	
Electronics engineer	1988 - 2007	<b>KODAK INDUSTRY</b>	Chalon sur Saône
		<b>Printed Circuit Boards Design (CADSTAR Computer Assisted Design System)</b>	
		<ul style="list-style-type: none"><li>- Movie image quality data recording system design</li><li>- Film processing product concentration analog digital measurement apparatus</li><li>- WorldFIP field bus sensors and actuators</li></ul>	
		<b>MATLAB Signal and images processing</b>	
		<ul style="list-style-type: none"><li>- Modulation Transfer Functions implementation for image quality analysis;</li><li>- CCD camera and signal analyzer from Rochester USA transfer (3 weeks in Rochester – USA)</li></ul>	
		<b>Software development</b>	
		<ul style="list-style-type: none"><li>- Process software development targeted for PC</li></ul>	

## Experience (*continued*)

Electronics engineer	1985–1987	<b>THOMSON DISPLAYS</b>	Genlis
		<b>TV color screens high voltage power supplies design</b>	
Electronics engineer	1982–1985	<b>MATRA</b>	Vélizy
		<b>Embedded military electronic equipments design</b>	
Maintenance technician	1980–1982	<b>SIEMENS</b>	Saint Denis
		<b>Image scanners technical support</b>	

## Skills

<b>Development languages</b>	VHDL, MATLAB, Micro controller and Digital Signal Processor C language, Visual C++, Motorola® DSP 56000 and 80x86 Assembler, Turbo Pascal, Rockwell Automation Control Logix PLCs language
<b>Design tools</b>	ModelSim (Mentor) , XILINX ISE, Filters, Design Advanced Toolbox and Filters HDL Coder MATLAB, CADSTAR, Ultiboard (National Instruments)

## Languages

French (native language)  
English (frequently used in Kodak work environment)  
German (fluently spoken and written)

## Education

<b>Academic training</b>	2009	<b>Master degree in microelectronic</b> (Digital and Analog Integrated System Design Grenoble University).
	2007	Electromagnetic compatibility equipments design (AEMC)
	2006	<b>Master degree in electronic, signal processing, industrial software development</b> (Lyon University)
	1995	Diplôme d'Etudes Supérieures Techniques Automatismes Industriels issued by the Conservatoire National des Arts et Métiers
	1988	Robotic and Automation training (INSA Lyon)
<b>Initial academic education</b>	1978	Diplôme Universitaire de Technologie Génie Electrique (IUT de Cachan)

## Hobbies and interest

Sport: Swimming, Skiing  
Music: Trombonist in different groups.  
Web page (in French) : <http://michel.lemoine60.perso.sfr.fr/>