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Professional record

Feb. 2012 – Nov. 2012	NANYANG TECHNOLOGICAL UNIVERSITY - SINGAPORE. RESEARCH SCIENTIST IN TEMASEK LABORATORIES BADAR CENTRE
(10 months)	 Algorithms for high-resolution SAR imaging from highly unstable platforms Motion compensation and autofocus algorithms in the unstable SAR imaging context. High robustness to undesired motion requires dedicated SAR imaging chain.
Dec. 2009 –	TÉSA (TELECOMMUNICATIONS FOR SPACE AND AERONAUTICS) - TOULOUSE.
Nov. 2011	Research scientist in the Signal Processing unit.
(2 years)	Signal processing algorithms for radar data measured with embedded automo-
	tive sensors, for driver assistance applications.
	\triangleright High resolution applications of synthetic aperture radar and digital beamforming
	algorithms. \triangleright Required compliance with stringent automotive industry requirements.
2005-2009	INSTITUTE OF MICROTECHNOLOGY, (UNI. OF NEUCHATEL - EPFL).
(4 years)	RESEARCH-ASSISTANT IN THE PATTERN RECOGNITION LABORATORY.
	the pattern recognition and microprocessors loctures
	\land Research projects in collaboration with industry (CTI) \land Mentoring students for
	semester and diploma projects
2005	LOGITECH, FREMONT, CALIFORNIA, INTERN IN THE SYSTEM ENGINEERING
(6 months)	DEPARTMENT OF THE WEBCAM DIVISION.
· · · · ·	Working on a project aiming to improve audio quality in webcam conversations.
	▷ Audio signal processing. ▷ Study taking into account constraints for mass produced
	devices.
2004	PAUL SCHERRER INSTITUTE, VILLIGEN - SUISSE. INTERN AT THE LABORA-
(3 months)	TORY OF MICRO ET NANO-TECHNOLOGY (LMN).
	Optimization of a setup producing large structures with sub-micron resolutions.
	\triangleright Work in clean room environment. \triangleright Laser interference lithography.
Education	
2005-2009	 IMT-PARLAB, UNIV. OF NEUCHÂTEL - EPFL. PHD IN SCIENCE. Contributions to image processing algorithms for advanced 3D vision devices. ▷ Image processing. ▷ Time-of-flight cameras. ▷ Real-time network of 3D cameras. ▷ Fast filtering for measurement errors reduction
2000-2005	University of Neuchâtel. Master of Science in Microtechnology.
	Cum laude.
	▷ Microfabrication. ▷ Signal processing. ▷ Micro-optics. ▷ Material science.
1997-2000	Lycée Denis-de-Rougemont, Neuchâtel. Scientific baccalaureate. magna cum laude.

IT skills

Operating systems :	MS Windows (7, XP), Mac OS X, Linux (Ubuntu, CentOS)
Programmation :	Matlab, C, C++, Java, Python, Labview
Development :	MS Visual Studio, CodeBlocks, Eclipse, Xcode, git, hg, SVN, CVS
Libraries :	VTK, wxWidgets, OpenCV, Matrox MIL, FFTW, IDL, Qt

Languages

French :	Mother tongue.
English :	Fluent (spoken, written).
German :	${\rm Read},$ basic redaction, general conversation.