Thomas Dehaeze

Curriculum vitae

Education

2017 –	**Philosophiæ doctor (PhD)**, *ULB, Liège*.	
	Development of mechatronics concepts and their application for a Nano-positioning endstation	
2016 – 2017	**Master of Science (MSc) in Embedded Systems**, *UCBL, Lyon (69)*.	
	Methods of fabrication of micro-systems, study of multi-core architectures and FPGA, CAD	
2014 – 2017	**Master of Science (MSc) in Engineering**, *École Centrale de Lyon (69)*.	
	Major in electronics, embedded systems, automatics, machine learning	
2012 – 2014	**BSc & 1st year of MSc in physics**, *École Normale Supérieure, Lyon (69)*.	
	Science of Matter, Signal processing, Python programming, Mathematics	
2010 – 2012	**2-year undergrad. intensive course in math and physics**, *Lycée du Parc, Lyon*.	
2010	**French equivalent to A-lever with major in Sciences**, *Lycée Armorin, France*.	

Working Experience

Nov. 2017 – present	**European Synchrotron Radiation Facility (ESRF)**, *Grenoble (38)*.
	Development of mechatronics concepts for nano-positioning and active stabilisation stage: 6DoF Stewart Platform, 6DoF online metrology system and the associated control system
April – Sept. 2017	**Asygn, Analog System Design**, *Grenoble (38)*.
	Study of an high performance MEMS gyroscope. Identification and system modeling, controller synthesis using H_∞ loop-shaping and implementation of control laws on embedded system
March – July 2016	**Rtone, firm of engineering consultants specialising in IoT**, *Lyon (69)*.
	Embedded development (C/C++/lua on Cortex m4 and stm32) for IoT applications. Development of a web application and a mobile application with the design of the data model
Sept. 2015 Jan. 2016	**Relief Applications, tech startup for the humanitarians**, *Rome (Italy)*.
	Developpement of a web platform (Symfony2), a mobile application (Ionic) and a REST API
May – July 2015	**8fablab, digital fabrication laboratory**, *Crest (26)*.
	Making a testbed for acoustic and electrical measurements of loudspeakers. Design of a loudspeaker enclosure and its realization with digital manufacturing tools
May – July 2014	**National Centre for Scientific Research**, *Lyon (69)*.
	Design and assembly of an experimental device in order to put under stress a silicon beam under the action of an electric field, all under vacuum and at low temperatures
June – July 2013	**National Centre for Scientific Research**, *Lyon (69)*.
	Design and assembly of an optical bench followed by image processing and data analysis

Computer knowledge

Scientific	MatLab, Python, FEM softwares, CAO softwares
Embedded	C, C++, Prototyping (PCB, Arduino, RaspberryPi, ...)
Web	Frontend (MVC), Backend, API, Databases (no)SQL
DevOps	Unix, Versionning (Git), Script (bash, ...)

Languages

French	Mother tongue
English	Working language (TOELF iBT 83)

Interests

Digital Fab.	Using of CNC machines: 3D printer, Laser cutter, Milling machine
Electronic	Many projects using the Arduino and the RaspberryPi
Sports	Tennis, Table Tennis, Hiking