Robin Beilvert

Objective: 6-month internship position in the field of Electronics Engineering

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🖥 *RobinN7.github.io*
Available from 1st March 2016

Education

Sept.2015–Feb.2016	**Exchange program**, *HUST*, Wuhan, China, Computer Science. Main classes : Object-Oriented Programming, Artificial Intelligence, Multimedia, Digital Communication, Chinese.
2013–2016	**Engineering school**, *INP ENSEEIHT*, Toulouse, France, Electronics and Signal Processing. Graduation expected in 2016. Main classes : mathematics and signal processing, analog and digital electronics (Transistor circuits, VHDL, FPGA, ...), electromagnetism, programming (C/C++).
2011–2013	**Two-year intensive highly-selective course to prepare for competitive entrance examinations to National Engineering Schools**, *Lycée Clemenceau*, Nantes, France. Courses included : Mathematics, Physics, Engineering Sciences

Experience

June - August 2015	**Internship**, *LAAS-CNRS*, Toulouse, France. Design and implementation of a Matlab/Simulink framework to increase the frequency performances of Unmanned Aerial Vehicle control. Adaptation of C-written CANopen framework using IXXAT USB-to-CAN converter drivers to communicate with EPOS2 Maxon motor control modules. Implementation of Matlab S-Functions using this CANopen framework and serial communication to respectively control the quadrator arms tilting angle and communicate with the flight board.
	Personal project, Toulouse, France. Design of an interactive RGB LED strip control system. Controlled by sounds and music through smartphone embedded Fourier Transform. Bluetooth transmission to PIC microcontroller through HC-05 module.
2014-2015	**Project**, *Robotics club 7Robot, ENSEEIHT*, Toulouse, France. • French Robotics Cup : Design of autonomous robots physically interacting with various items. Development of electronic cards featuring SMPS, H-bridge motor control, and analog and digital actuators and sensors management throught a PIC microcontroller also performing two correlated DC motor control loops. Raspberry Pi embedded software and AI development under Archlinux. Achievement : **Quarter-finalists**, ahead of 180 teams. • Freescale Cup : Conception of a line following model race car : sensors, signal processing, control loops. • Entertainment : Design and building of an interactive 3D LED cube. Features 9 synchronized microcontrollers driving its 512 bi-color LEDs on 8 multiplexed floors. Usable with homemade Python games sending display instructions via UART.
August 2014	**Internship**, *Cofely Services - GDF Suez*, Nantes, France. Climatic installation and maintenance mostly on the sites of Ifremer, Oniris and Banque Populaire.
July 2014	**Project**, *Eva Albarran*, Toulouse, France. Study and reproduction of thermoelectric sap flow measurement Granier probes, implementation of an Arduino datalogging module with low-noise amplifiers for their test. Collaborating with a CNRS Research Director, for the 2015 Venice Biennale.
2013–2014	**Project**, *7Robot, ENSEEIHT*, Toulouse, France. • French Robotics Cup : 77^e/160. • Freescale Cup : 2nd national position. Qualification for European sessions.

Technical skills

OS	GNU/Linux, Microsoft Windows	Software	MPLAB X, Matlab/Simulink, Eclipse, Android Studio, git, Vim, Orcad, ADS, Eagle
Programming languages	C/C++, Python, LaTeX, Assembly, VHDL	Electronics	Analog and digital electronics, PIC/Arduino implementation

Languages

English	**Fluent.** TOEIC score : 905. European level B2. Training in presentations, meetings, report writing.
Spanish	B1 Good working knowledge
Chinese	A1 Basic. 160 hours of Chinese lessons included in HUST semester and two weeks student residence spent in May 2014 (Pékin, Xi'an, Xiangyang, Shanghai).
French	Native speaker

Interests/Hobbies

Associative	**President 2014-2015 of ENSEEIHT Robotics Club 7Robot.** Team, projects, sponsors and contact management, training for beginner students. **Vice-president 2013-2014 of the club CarnavalINP.** Building a float for the carnival of Toulouse, contact management, team management, handcraft.
Music	Guitar (autodidact) and violin (autodidact beginner)
Sport	Climbing. Dance in pairs : Rock, Swing (Lindy Hop), 14 years of Alpine skiing