

Jeremy DELAPORTE

Embedded Systems Engineer (M. Eng.)

28 years-old

Nationality: French

Marital Status: Married

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Languages:

French (Mother tongue) - English (Fluent) and Polish (A2 level)

Career Objective

To obtain a position of Embedded Systems Engineer in a high-tech company in Krakow and to utilize my knowledge in embedded systems design and programming. I am looking for a serious and dynamic team with a position that best fit my skills and requirements.

Professional Experiences

Since Jul. 2014 Software Engineer at Samsung Electronics

- *Design and implementation (C++) of new functionalities for SMART TV products (Tizen OS)*
- *Working under GNU/Linux environment*
- *Analysis of memory leaks and unintended memory accesses*
- *On-site client support prior to launch on the market*

Samsung Electronics – Ul. Abpa. Baraniaka 61-131 Poznan, POLAND

Oct. 2011 - Jun. 2014 Embedded Systems Engineer (Design and Programming)

- *Design of an On-Board Computer for nanosatellites (CubeSat) based on COTS components and the implementation of mitigation techniques to address the problem of Single Event Effects (**NXP LPC1788, CMSIS and FreeRTOS**)*
- *Technology survey on mitigation techniques for the use of embedded systems in harsh environments*
- *Management of system exceptions (Identification and logging on external EEPROM memories) on ARM based microcontrollers*

Institut Supérieur Des Sciences Et Techniques/Université de Picardie Jules Verne - Saint Quentin, FRANCE

Sept. 2010 - Sept. 2011 Embedded Systems Engineer (Sandwich course - Software programming)

- *Design of a monitoring system for energy consumption based-on the Wi-LEM wireless sensors network and the Friendly ARM Mini2440 development board*

AERGY, Le Plessis Belleville, FRANCE

Apr. 2010 - Jul. 2010 Embedded Systems Intern (Software)

- *Design of a positioning system in an indoor environment based-on PIR sensors to detect behavioral abnormalities of the elderly*

Institute of Microelectronics and Wireless Systems, Maynooth, IRELAND

Employed skills: FreeRTOS, Assembler and C programming for embedded, C++, electronic design, ARM Cortex-M3 based (NXP LPC17xx) and PIC (PIC16F & PIC18F) microcontrollers, management and oral communication, *GNU/Linux environment and GNU Debugging tools.*

Education

- Sept. 2008 to Sept. 2011** Bachelor and Master's degree in Embedded Systems (Sandwich course with AERGY and distinction)
- Analog and Digital Signal Processing, C and Assembler Language for embedded, Microcontrollers and DSPs (Microchip and ARM based from NXP), Real Time Operating Systems, FPGA/VHDL, Network and SOC*
- Institut Supérieur Des Sciences Et Techniques (INSSET/UPJV), Saint Quentin, FRANCE**
- Sept. 2006 – June 2008** BETC Higher National Diploma specialized in industrial computing (Distinction)
- Programming languages: C, C++, PHP and MySQL and JAVA*
- Design of an application software for the communication of a professional weather station from OREGON*
- Institut Supérieur Des Sciences Et Techniques (INSSET/UPJV), Saint Quentin, FRANCE**

Selected oral presentations at various conferences

- April 2013** "A Fault-Tolerant On-Board Computer For CubeSat Based-On Hybrid Architecture" - **J. Delaporte, F. Swingedouw and C. Dromas** - 10th Annual Spring Workshop 2013 **San Louis Obispo (California), USA**
- June 2012** "Attitude Correction Of Cubesat In-Orbit Based-On Earth Magnetic Field Measurement And Virtual Magnet Actuator" **J. Delaporte, C. Dromas and T. Capitaine** - Small Satellites Systems and Services The 45 Symposium 2012 **Portorož, Slovenia**
- April 2012** "Automatic Memory Fault Detection And Correction of A CubeSat On-Board Computer Based-On An ARM Cortex Microcontroller" **J. Delaporte, C. Dromas and T. Capitaine** - International Conference on Student Small Satellites **Istanbul, Turkey**

Activities and Interests

- Off road mountain biking and participation of some competitions for amateur
- Fireworker with qualification since 2008 (C4N1 - French diploma)
- Amateur Radio Licence since 2011 (F4HAW)
- 3D Printing and DIY CNC: I am a true fan of the K8200 3D Printer for 2 years. I really enjoy 3D Printing and burning my own PCBs at home.
- **Smart Outlet project:** It is the name of my own project. It consists in the development of a smart outlet capable of measuring the energy consumed by any devices and sends (via BLE) various data to mobile devices for analysis. GitHub repo. : www.github.com/jeremydelaporte/plugandsee