Bertrand Roussel

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FRANCE

Embedded Systems Engineer

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OBJECTIVE

Motivated firmware developer, rapidly efficiant, is looking forward to join an embedded software team at Sierra Wireless in Richmond.

SKILLS

Development: **C, C++, Qt, C#, xHTML, Ruby, CMake, PHP5, Python**
Networking: **W-CDMA, LTE, CAN, I2C, SPI, SSL, TCP/IP**
OS: **Linux (Gentoo, Debian, OpenEmbedded), Windows**
Platforms: **Cortex-A8, Cortex-M3, ARM9, x86**

EXPERIENCE

2011 / 2012 (14 m.)
MStar Semiconductor
Issy-les-Moulineaux (FR)
(contractor)

Development and assistance on W-CDMA L1 embedded software
Problem analysis on real-time software
System profiling and optimizations to stabilise and shrink MIPS consumption
Integration test implementation and automation using R&S CMU200
Creation of tools to profile, test and validate the chipset
W-CDMA, LTE, C, RT, C++, Linux, Eclipse, C#, Ruby on Rails

1st Sem. 2011 (6 m.)
CRDE
Cahors (FR)
(contractor)

Embedded software conception: conceptualization, implementation and validation
Firmware for an energy measurment board
Firmware for the mainboard of an high-voltage network supervision module
    Conception of a dynamic web-server and associated web service
    Integration of lwIP (TCP/IP layer) and USB RNDIS implementation
USB implementation on a problem detection module
    AT interface over USB (CDC)
Cortex-M3, CAN, TCP/IP, RTX, lwIP, USB, xHTML / CSS / jQuery, Eclipse

2nd Sem. 2010 (6 m.)
ID-Tech
Vitrolles (FR)

End-to-end prototyping for a mechanical product
Realization of a board and the associated firmware
STM32, C / C++, Qt, Eagle

2008 - 2009 (9 m.)
ISEN Engineering (FR)

Member of a team to compete in the French Robotic Cup 2009
Interfacing dsPIC and ARM9 controleurs on CAN network
ARM9, CAN, Linux, C++, Qt

EDUCATION

Sept. 2010

French Engineering diploma delivered by ISEN Toulon, specialized in mechatronics

1st Sem. 2010 (6 m.)
University of Canterbury
New-Zealand

International exchange, computing and embedded software courses
Linux on embedded systems (driver development project)
Oriented-Object programming
Cortex-A8, SPI, UML, Qt

2005 - 2009 (5 y.)
ISEN Toulon
France

Engineering course
System, network and graphic development
High Performance Computing (Optimization, Cloud computing)
Radio-frequency communication

INTERESTS

Languages

French: mother tongue
English: fluent (TOEIC : 970/990, TOEFL : 96/120, First)
Swedish: begineer

Activities

Likes travelling (Scandinavia, Asia, Oceania), listening to music, playing poker and DIY.
Sports: climbing, trekking, skiing