

## Senior Embedded Software Engineer

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### SUMMARY

Strong experience in low level bare metal embedded software programming in C (6+ years). This comprises embedded software for safety critical systems. The broad skill set also includes experiences in electronics hardware design as well as Web, Android and other OOP development.

### WORK EXPERIENCES

- July 2016 – currently: Freelancer & Entrepreneur at *Yupana Engineering Ltd*, Remote.  
IoT development on Cypress PSoC 4 BLE (**ARM Cortex-M0**): electronics hardware, SMT prototyping, C firmware, JAVA Android, PHP website. Using BLE, Wordpress, GIT. Learning USB-C, TI CC2640R2, LoraWan, Web Marketing.
- July 2015 – July 2016: Travelling in central and south America, learning Spanish.
- Dec 2013 – Jun 2015: Touch Applications Engineer, *Atmel Corporation* in Whiteley, UK.  
FW development in **MISRA-C** for **ultra low power** capacitive touch controllers.  
Porting the consumer FW to **Automotive**: bootloader and SPI driver consolidation. Using JIRA, Bugzilla, SVN. Writing specs & documentations.  
Development of testing gigs; **Atmel AVR**, XMEGA and SAM4 (ARM Cortex-M4) in AtmelStudio and IAR. Support for Automotive SPICE-2.
- Sept 2012 – July 2013: Working Holiday in Australia, learning English.
- Sept 2011 – Sept 2012: **Embedded Software Engineer**, *SAIT Mining* in Saverne, France.  
Assist and manage (5pp) the **hardware** (schematics capture, BOM, integration, EMC/EMI) and **firmware MISRA-C** development of a **Modbus** interface: Safety Critical NE 61508, and explosive atmosphere ATEX / IECEx.
- Sept 2008 – Sept 2011: **Embedded Software Engineer Apprentice**, *SAIT Mining* in Saverne, France.  
Multilingual user interface: C firmware on **Freescale** controlling a graphic colour **LCD**. Visual Studio.NET, Metrowerks and iSystem IDE. Safety Critical NE 61508, and explosive atmosphere ATEX / IECEx.

August 2010: Electronics Engineer Internship, *HCS* in Frickenhausen, Germany.

**OLED** display hardware and C FW stack development on **Freescale**.

Jan. – June 2010: University project at ITII Alsace, France. **CAN bus** system; HW prototype, embedded software in **C**, **Microchip** PIC 18F. Project management.

Sept 2006 – Sept 2008: Electronics technician apprentice, *TECHNI Projets* in Mulhouse, France.

Hardware & Embedded Software development of a 3-P **motor speed controller**.

Microchip MPLAB, RS485, PWM, Power electronics. Target3001 (CAD).

#### OTHER IT AND ELECTRONICS KNOWLEDGES:

IT: Assembler, Python, VBA, MySQL, PHP, XML, HTML, JS, Shell (MS & Unix).

University: VHDL, PLC, RTOS, UML, TCP-IP, Unix, LabVIEW, Matlab, Altium.

Tools: Multimeter, oscilloscope, frequency generator, Spectrum analyser, bus analyser...

Android: The first native Android App (com.wire.timeout3g) was released shortly after Android, end of 2008. The most famous one, restricted to a French and a Spanish MNO, hit 170.000 downloads (com.wire.freemobile.roaming) and a satisfaction rate as high as 4.4/5 (com.wire67.roaming.yoigo).

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#### EDUCATION

2011: **Master's degree in Electronics and industrial IT Engineering**, (as apprentice)  
ITII Alsace & ENSPS, University of Strasbourg, France.

2008: Higher National Diploma in Electrical and Industrial IT Engineering, (as apprentice)  
Technological University Institute (IUT) of Mulhouse, France.

2006: Technological Baccalaureate (A-level) of Science and Industrial Technology in  
Electronics Engineering, Marc Bloch High School, Bischheim, France.

#### LANGUAGES:

French: Mother tongue.

English: Full professional proficiency, C1. TOEIC 2011: 91%.

German: Upper intermediate, B2.

Spanish: Upper intermediate, B2.

Portuguese: Beginner.

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#### HOBBIES

DIY. Rock climbing, snowboarding, martial arts. Travelling, languages. Volunteer Firefighter & First aid