

Senior Embedded Software Engineer

First name **Jérôme**
Last name **HIEBEL**
Date of birth 10 Feb 1988
Nationality French
Address Leicester, UK.
Email jerome.hiebel@gmail.com
Phone +44 20 3813 1439



[in/jeromehiebel](https://www.linkedin.com/in/jeromehiebel)



SUMMARY

Strong experience in low level bare metal and RTOS firmware programming in C (14+ years). This primarily involves embedded software for safety critical systems and BLE (Bluetooth Low Energy). Broad skill set with experiences ranging from electronics hardware design, to IT backend, with a focus on firmware.

WORK EXPERIENCES

- June 2022 – currently: Lead Firmware engineer at Apption Labs, Leicester UK, Remote. IoT **BLE 5**, **TI-RTOS**, **FreeRTOS** in C/C++ on **ARM TI** CC2640R2F, CC2652R. Wi-Fi, MQTT on CC32xx, ESP32. BLE Peripheral + Central role. Full product cycle. Gitlab FW CI.
- Feb 2017 – June 2022: Senior Embedded Software, at Apption Labs, Leicester UK, Remote.
IoT **BLE & RTOS** in C on **TI** CC2640R2F (**ARM** Co.-M3). BLE Peripheral + Central role (5 connections). Full product cycle. Dialog DA14531.
On site product manufacturing QC & mass production tests setup (Taiwan).
- July 2016 – Feb 2017: Freelancer & Entrepreneur at *Yupana Engineering Ltd*, Remote.
Cypress PSoC 4 BLE, electronics hardware, SMT prototyping, C firmware, JAVA Android, PHP website, Wordpress, GIT. LoraWan, Web Marketing. Blockchain.
- July 2015 – July 2016: Travelling in central and south America, learning Spanish.
- Dec 2013 – June 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, boosting my English.
- Sept 2011 – Sept 2012: **Embedded Software Engineer**, *SAIT Mining* in Saverne, France.
Development of a Modbus interface: Lead and assist with the **hardware** (schematics, BOM, integration, EMC/EMI) and **firmware** MISRA-C for: 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.

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. CAD with Target3001.

OTHER IT AND ELECTRONICS KNOWLEDGES:

IT: Assembly, Python, VBA, MySQL, PHP, XML, HTML, JS, Shell (MS & Unix).
Tools: Multimeter, oscilloscope, Spectrum analyser, bus analyser, Ellisys, Wireshark...
2008 onwards: Android Native Android Java Apps. 170.000+ downloads in the “Tools” category.
2019-20: SaaS Shopify Web App. Payment gateways using Stripe, Paypal...

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, daily use.
German & Spanish: Upper intermediate, B2.
Indonesian: Beginner.

HOBBIES

DIY. Rock climbing, snowboarding, martial arts, surfing. Travelling. Ex-volunteer Firefighter & First aid.