Franck Parat | Embedded Software Engineer

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Skills

Key programming skills: C (bare metal), Python 2/3, Rust, VHDL (FPGA)

Embedded engineering: UART, SPI, CAN (FD), LIN, K-Line, I²C, Ethernet, HAL, Drivers Hardware: Debugging, usage of oscilloscope, soldering, reading of schematics and datasheets

Also: C++, Assembly, Bash, Batch, Linux, Docker, Latex

Tools: Versionning (Git, SVN), Testing (Ceedling, pytest), Documentation (Sphinx), "Unix" utilities

Experience

ART Logics Shanghai

Automotive Testing Industry, Embedded Software Engineer

Worked on the logic implementation of key products of the company.

2014-2020

- o Maintenance of the company core products firmwares (SPC56/58 (PowerPC), PIC24):
 - Design, implementation, test, and documentation of new features
 - Refactoring of the code with a strict hardware abstraction layer in order to support more platforms
 - Integration of automatic unit testing and documentation generation in the workflow
- O Development and maintenance of FPGA logic implementation (Xilinx Spartan 6):
 - Bug fixes and stabilization of boards in production
 - Logic design and implementation for several new boards
- o Firmware implementation for smaller products based on PIC24, with LIN and UART interfaces.
- o Creation of a GUI tool for controlling the products with UART/Ethernet. Based on Python and wxWidgets.
- o Development of a desktop application for the calibration of several products. Based on Python and Tkinter.

Education

National University of Singapore (NUS)

Singapore 2013-2014

Exchange program

Exchange program for 2 semesters (Embedded Systems, Computer Science, Multimedia)

École Nationale Supérieure de l'Électronique et de ses Applications (ENSEA)

Cergy

Engineer degree (master level)

2011-2014

Graduate School of Electrical Engineering and Computer Science

Lycée Saint-Louis

Paris

"Classe Préparatoire aux Grandes Ecoles"

2009-2011

MPSI, PSI: Advanced Mathematics, Physics and Engineering Science

Languages

French: Mother tongue Chinese (mandarin): Conversational

English: Fluent. TOEIC: 930, TOEFL: 93

Last update: February 13, 2020