Franck Parat | Embedded Software Engineer

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Skills

Key programming skills: C, 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++, Linux, Assembly, Bash, Batch, 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.

- o Responsible of the embedded software of a generic test controller. (SPC56/58 (PowerPC), PIC24):
 - Design, implement, test, and document new features,
 - Refactored the code with a strict hardware abstraction layer for portability accross different hardware,
 - Integrated automatic unit testing and documentation generation in the development workflow.
- O Develop and maintain FPGA logic implementations (Xilinx Spartan 6):
 - Bug fixes and stabilization of boards in production,
 - Logic design and implementation for several new products.
- o Developed the firmware of smaller products based on PIC24, with LIN and UART interfaces.
- o Created a GUI tool for controlling the products with UART/Ethernet. Based on Python and wxWidgets.
- o Developed a desktop application for the calibration of several products. Based on Python and Tkinter.

Education

National University of Singapore (NUS)

Singapore 2013-2014

2014-2020

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: October 20, 2020