

# **Engineering skills**

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

**Embedded engineering**: UART, SPI, CAN, LIN, K-Line, I<sup>2</sup>C, ADC, DAC, timers, interrupts, HAL **Hardware**: Debugging, usage of oscilloscope, soldering, reading of schematics and datasheets

**Also**: C++, Assembly, Java, Javascript, Typescript (Angular), Batch, Latex

Tools: Git, Subversion, Ceedling (test framework for C), Sphinx (documentation), "Unix" utilities

# **Experience**

ART Logics Shanghai

Automotive Testing Industry, Embedded Software Engineer

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

- o Maintainer of the TCU/CCU firmwares, core products of the company (SPC56, PIC24):
  - Design and implementation of new features.
  - Port the code to the sibling product CCU100, and the successor TCU110;
  - Refactoring of the code for supporting multiple products with a single codebase.
  - Integrated unit testing and documentation generation in the workflow.
- Development and maintenance of FPGA "firmwares" (Xilinx Spartan 6):
  - Bug fixes and stabilization of boards in production;
  - Design and development of several boards.
- o Design and development of smaller products based on PIC24, with LIN and UART interfaces.
- o Creation of a desktop application for UART or Ethernet communication. 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 Exchange program Exchange program 6r 2 semesters (Embedded Systems, Computer Science, Multimedia) ENSEA Engineer degree (master level) Graduate School of Electrical Engineering and Computer Science Lycee Saint-Louis "Classe Préparatoire aux Grandes Ecoles" MPSI, PSI: Advanced Mathematics, Physics and Engineering Science Singapore 2013–2014 Cergy 2011–2014 2011–2014 2009–2011

## Languages

French: Mother tongue Chinese (mandarin): Conversational

English: Fluent. TOEIC: 930, TOEFL: 93

Last update: October 8, 2018

2014-2018