

Jérôme SERODIO

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Driving license : French Permis B



Embedded Software Development Engineer

EDUCATION

2017-2020 Master of Science in Embedded Systems Engineering at Polytech Montpellier, France (34).

Multi-disciplinary training in Electronics and Microelectronics, Automation & Robotics, Computer Engineering and Industrial Engineering

Field study : Math, Physics, Digital and Analog Electronics. Computer Science, Signal Processing. Modern languages, Social Sciences.

2015-2017 Preparatory classes, Highly selective 2-year scientific selection program in Math and Physics at Polytech Orleans, France (45).

2014-2015 French Baccalaureate (High School), Science Major with honors at Pothier High School in Orleans, France (45).

WORK EXPERIENCE

January 2020 – Today Embedded Software Engineer – Schneider Electric, Grenoble, France.

October – December 2020 Embedded Software Engineer – OPEN Group, Contractor at Schneider Electric, Grenoble, France.

2017-2020 Apprentice – Embedded Software Engineer – Schneider Electric, Grenoble, France.

- *Design tests for MasterPact MTZ electrical protections*
 - o *Increase test coverage for voltage and power protections*
 - o *Create test coverage for frequency protections*
- *Design a tool to reproduce trip issues from customers*
 - o *Reproduce the same trip that happened to the customer on an OMICRON test bench.*
- *Design a full electrical protection for MasterPact MTZ*
 - o *Writing of specs, modelization of the protection algorithm under Matlab/Simulink. Code generation and C integration. Unit tests, trip tests with OMICRON test bench, fonctionnal tests with pytest.*
- *Design a driver to use Hardware True Random Number Generation and SHA256 on Cortex-A8*
 - o *Driver in C to activate and use Hardware Accelerators : TRNG and SHA256, cybersecurity topics.*

2013-2015 Trainee – GREMI Laboratory – Research Center of CNRS – Orléans, France.

Worked with a researcher for 3 years each Friday afternoon as part of his thesis on plasma etching. Production of analysis report and handling of multiple plasma etching methods.

SKILLS

Software development and tools : C (with MISRA guidelines) ,C++, C#, Python. Simulink, Matlab. RaspberryPi, STM32. SVN, GIT. RTOS : IntegrityOS, FreeRTOS

Languages : French (mother tongue) , English (Fluent, TOEIC SCORE : 875), Spanish (Basic, B1 Level)

PROJECTS AND INTERESTS

Music : 12 years of drums and percussion, 6 years of piano, 11 years of theory in municipal school.

Computer stuff : Design of software/games based on C, C++ and C# during my free time. Worked on Arduino, RaspberryPi, STM32.

Trip : One month abroad in University of Electronic Science and Technology of China, Chengdu.