Lucas **Fichou**

Embedded systems junior engineer

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Formation

2019 - 2022 **Microelectronics and computer science ingeneering degree** at **Ecole des Mines de St-Etienne**, Gardanne (13120) France - Major Embedded Systems and Supply Chain management

2017 - 2019 **Preparatory classes Mathematics and Physics** at **Lycée Kerichen-La Pérouse**, Brest (29200) France - In-depth training to prepare for the competitive examinations of French engineering schools

2017 **Scientific Baccalaureate Option Mathematics** at **Lycée Vauban**, Brest (29200) France, with honors

Professional experience

Today – April 2022 | **Internship | Technology and Strategy Group, Leonberg, Germany**

- Development of an integration platform
- Uniforming build, tools with variant handling
- Continuous integration with Azure devops
- Database handled with SQLAlchemy

Python | Java | Eclipse | Azure devops | Versioning | SQLAlchemy

March 2022 – February 2022 | **Industrial project | Simulation and optimisation of factory layout, Lign.o, Gardanne (13120), France**

- Modeling the layout of a factory with a given set of machine and detailed process
- Studying bottlenecks and production rate while changing multiple factors
- Modeling done with AnyLogic

Supply Chain | AnyLogic | Java | Optimisation

July 2021 – February 2021 | **Industrial project | Networking of vehicle charging stations, E55 Charging, Gardanne (13120), France**

- Networking of charging points to help reduce energy consumption, schedule charge for customers
- Assembly of an OpenEVSE station, using an AC adaptor to turn a kettle on or off
- Comprehension of the Open Charge Point Protocol (OCPP) and RAPI
- Charge command and schedule from a web application achieved

OCPP | Electric vehicule charging | Arduino | OpenEVSE

January 2020 | **Internship | Heater installation and maintenance, Welem, Brest (29200), France**

- First internship, not in my work field but interesting discovery

Construction | Manual work | Renewable energy

Skills

Programming languages	**Python**, **C/C++** (in embedded systems), knowledge of Java, html and Javascript
Database	MySQL, PostgreSQL, SQLAlchemy, mongoDB
Development tools	**Visual Studio Code**, **STM32 tools** (cubeMX, cubeIDE), **git**, Keil µVision, ModelSim, Xilinx tools (CoDesign FPGA)
Embedded system	**RTOS**, **Communication Networks / Buses** (CAN, I2C, UART, etc.), **Digital system design** (VHDL, FPGA), **Embedded linux**, experience with STM32 nucleo and PIC and raspberry pi
Management	Project management, Agile methods, Communication
Other	Pack office, technology watch, management notions

Languages

French	Fluent, native speaker
English	Fluent, 985 TOEIC
Spanish	Comprehension, frequent immersion
Japanese	Basic knowledge