

# Joël Wabo

Senior Software  
Engineer

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## Area

266 Rue Charles E. Grenier,  
G1E 4X8, Québec CA

## Employment Objective

To obtain a position as software developer with opportunities for growth in a management position such as team or project leader

## Summary of achievements

- 5+ years of professional work experience in software development for various industry (Railway, automobile, food, glass).
- Agile, scrum and project management documentations. Qualification in progress.
- Motivated, organised and quick learner who works well under pressure And meets expected deadlines.

## Experience

### FRONTMATEC, R&D Software developer

Since Jan 2021

Quebec, Canada

In an R&D environment, the goal is to develop meat cutting systems. This involves :

- Development of web application to display result.
- Optimise current C++ algorithm of path generator.
- AI algorithm for pattern and meat part recognition.
- Mobil and desktop audit application in Flutter.

Env : C++, Dart, Flutter, OpenCV, Angular, Javascript, Github, Python

### ALSTOM, Software engineer

Apr 2019 - Dec 2020

Charleroi, Belgium

- Responsible for the virtualization of the Driver Machine Interface. The developed application embeds all the functionalities of a real DMI and is used for training, presentation of the product to the customer, and testing purpose.
- Development and implementation of the European Rail Traffic Management System (ERTMS) for our client train driver interface.
- Test, validation and software architecture.

Env : C, Delphi, CODESYS, Plc programming, SVN, ERTMS

## Skills



### OOP

C/C++, Python, Dart, Java  
Delphi, Codesys, C#, Android



### Web

HTML5, CSS3, Javascript, Php  
Flutter, Angular, Bootstrap



### Embedded

Arduino, VHDL, µVision



### DataBase

MySQL, Sqlite



### Graphical library

OpenGL, SDL, Qt, OpenCv



### Autres

Git, Kaban, Svn, AWS  
Office, Jira

## Languages



**French : native tongue**



**English : Advance**  
(ielts skill level 8)

# Experience

## ACORE INDUSTRIE, Software engineer

Jan 2019 – Mar 2019

Lyon, France

Design and development of a real-time graphical interface for Acore Industrie. The purpose of this interface is to facilitate the management and control of their current rectifier. The software exposes all the functions of the rectifiers, calculates the current and voltage commands, communicates via Modbus and has a solid database.

**Env :** .Net, C#, WPF, WCF, MVVM, Sql Server, Merise, TCP/IP, Modbus, UI Design, GitHub

## Groupe SEB, R&D Software developer

Aug 2018 – Nov 2018

Lyon, France

Proof of IoT concept. The goal is to create an IFTTT service for SEB Group in order to interconnect web services and make SEB's products communicate with other products. This involves :

- Development of a SEB API in python that communicates with IFTTT.
- Use AWS for data management, OAuth2 authentication and API development.
- Embedded development with ESP8266 (SPI communication and Wifi module).

**Env :** Linux, C/C++, Python, IFTTT, AWS S3, Cognito API Gateway, Lambda

## JTEKT EUROPE, Function and Integration Departments

Sept 2017 – Aug 2018

Lyon, France

Responsible of the software development of a retractable steering wheel for automobile in collaboration with the mecanique and industrial team. This involves :

- Manage the software development process and provide software status and planning.
- Collaborate with other teams to brainstorm and innovate the products.
- Development. Of the software and the trajectory in Simulink, C/C++ for embedded Tiva card.
- Driving test in the lab.

**Env :** C/C++, Matlab, Jira, Microsoft Project, Documentation

## TIAMA, R&D department

Feb 2017 – Jul 2017

Lyon, France

- Development of a multithreading application in C++ use to monitor threads et processus running in an embedded system.
- Development of a data processing and communication module (client – server).
- Web interface to display the results.
- Write and run unit tests using CppUnit.

**Env :** C/C++, Clang, UML, CppUnit, Web (HTML, CSS, Javascript), SVN, Visual studio

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# Education

## Master of Computer Science

2014 – 2017

UTBM, Belfort – France

## Bachelor of Maths and Physics

2012 – 2014

Prepavogt, Yaoundé – France

## High School Diploma

2012

Lycée Bilingue de Mendong, Yaoundé – Cameroun

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# Interests and others

● Travelling, Music (Singing and Piano), Sport (Badminton, Hiking)