

# Nicolas FLEUROT

Engineer in computer science

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## Professional experience

2018 - 2022 **Engineer consultant at Flowbird, Ikos Consulting**, Besançon, France  
Development of highly customized transport applications for each customers.

- Development of the application of ticket vending machines for public transport.
- Development of ticketing software following INTERTIC and INTERCODE 2 standards.
- Integrating new peripherals to existing projects (card dispenser, receipt printer).
- Analysis and correction of bugs on client projects.
- participating in the costing of customer projects.
- Supervision of two interns.

**Technologies** : C++, C, Java, Python

2017 - 2018 **Development engineer, Ikos Consulting**, Lyon, France

Development of a positioning beacon based on linear acceleration. The goal of this project was to compute the position of a railbound vehicle in indoor context (e.g. metro).

- Signal analysis.
- Interfacing with an inertial unit (accelerometer, gyroscope, magnetometer)
- State of the art study of indoor positioning.

**Technologies** : C++, C

## Formations

2014 - 2017 **Engineering school**,

University of Technology of Belfort-Montbeliard (UTBM), Belfort, France

French diploma in Engineering (Master of Engineering equivalent) Specialized in computer science with a focus on Embedded Systems

2012 - 2014 **Technical Degree in computer science informatique**,

University Institute of Technology of Belfort, Belfort, France

International mobility semester in Quebec.

## Tools/Technologies

Programming C++, C, Python, Bash

OS GNU/Linux, Windows 10, FreeRTOS

VCS Git, Mercurial, SVN

Compilation GCC, CMake, Make, Linker Script

DevOps Jenkins, Docker

## Languages

French Native

English Level C2

*Business Language Testing Service (score 93)*

## Interests

- Participation in the "Coupe de France de robotique" edition 2022.
- Cooking and baking.
- Figurine painting.