Victor Delafontaine
Robotic software engineer

About
Swiss nationality
23 years old

Website
GitHub link
Website link

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Rue de la Blancherie 46
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Contact
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Languages
French:
Mother tongue
English:
Fluent
CEFR level C1
German:
Basic knowledge
CEFR level A2
Japanese:
Basic knowledge
JLPT level N5

Personal Skills
Problem solving, teamwork, critical thinking, creativity

Computer Skills
Proficiency: C++, ROS, Python, Matlab, LaTeX
Intermediate: MS office, C, SolidWorks, AnyLogic
Basic: TypeScript, Altium Designer, Java, Ansys, CATIA

Interest & Hobbies
Robotics, drones, machine learning, technology, cycling, aeromodelism, hiking, skiing, reading, cooking

Work experiences

Current	**Software Engineer intern**	RigiTech, Lausanne, Switzerland

Development of software in C++ ROS for a VTOL delivery drone, focused on communication, navigation and video stream.

Spring 2019 — Drone-aided localization in LoRa networks — Swisscom Digital Lab, Lausanne
Precise localization of a ground beacon using the LoRa communication signal strength with relation to one or multiple drones. Supervised by MM. Rusu, Schiano, Cocco and Pr. Floreano. (5.5/6)

Spring 2017 — Bike courrier — Foodora, Göteborg, Sweden
Bicycle deliveries in a team in parallel to my studies over three months.

August 2014 — Summer Intern — Nestlé Research Center, Vers-chez-les-Blancs
Methodical classification and inventory of mechanical parts and tools inside a professional mechanical workshop.

Academic experiences

Fall 2018 — Versatile simulator for swarms of quadcopters — LIS, EPFL, Lausanne
Improvement of an existing simulator to add functionalities such as swarming. Semester project done at the Laboratory of Intelligent Systems supervised by Ms. Soria and Pr. Floreano. (5.75/6)

Spring 2018 — Design of an autonomous robotic fish — LSRO, EPFL, Lausanne
Redesign of an existing robotic fish design in order to enable 3D movement in water. Semester project done in the EPFL curriculum under the direction of Mr. Bonnet and Pr. Mondada. (5.5/6)

Fall 2017 — Conception of a smart flower pot — EPFL, Lausanne
Design and creation of a prototype for an innovative smart flower pot for the course *Product Design and System Engineering*. (5.25/6)

July 2016 — Machining Internship — ETML, Lausanne
As a part of the Bachelor's Degree, for three weeks, learning how to use different machining processes and tools, such as milling or lathing. Design and full realization of a complete chess game.

2014 - 2015 — Student Assistant for the course Programmation I & II — EPFL, Lausanne
In the course of Pr. Boulic on the subject of C programming

Education

2017 - 2019 — Master's Degree in Microengineering — EPFL, Lausanne
Major in robotics, with a course curriculum shared between robotics and systems engineering and a focus on mobile robotics.

2016 - 2017 — Exchange year in Sweden — Chalmers University of Technology, Göteborg
Academic and cultural exchange as part of the EPFL Bachelor Degree.

2013 - 2017 — Bachelor's Degree in Microengineering — EPFL, Lausanne
Computer, electrical and mechanical engineering mix, for students aiming for a Master on robotics, micro/nanosystems or optical engineering.