

# Arthur Bricq

arthur.bricq@protonmail.ch · +41 78 681 11 20 · arthurbricq.com

Lausanne, Switzerland



I am a software engineer working in robotics, more specifically in autonomous robot operating in unknown environment. My set of skill covers low-level programming (such as Rust, C++ or Oberon) to high level software design (Java, Python, Javascript) or backend-programming (Java, Python). I am passionate about computer science: from building large software in a team to spending some of my personal time programming personal projects. I am a team player, always eager to learn more and to share my knowledge. You are welcome to visit my personal site to discover more about me. I am currently looking for jobs in Ticino, as I am moving there from Sep. 2024.

## EXPERIENCE

---

- **Software Engineer**

Bluebotics

I am part of an agile software team where we work on many different products : a complex fleet manager, a user-interface configuration software, a web-app, and embedded robot code. In this company, I also work on research projects to improve the localization stack of our robots.

*Sep 2022 to Now*

- **Junior Software Intern and Master Thesis**

Flybotix

I worked as a research intern in a drone company, where I designed the localization software using visual-SLAM algorithm. This worked continued as a master thesis.

*Aug 2021 to Aug 2022*

- **Year Abroad in Canada**

University of British Columbia (UBC) - Vancouver, from 2018 to 2019

- **Mobile App Developer**

I designed and coded a complex mobile app for a tailoring company, and worked as advisor for several other mobile projects of EPFL's Junior Entreprise (Swift, Java, React-Native)

*2017 to 2020*

- **Teaching Assistant at EPFL**

Physics, Computer Science, Numerical Analysis & Legged Robotics.

*2017 to 2021*

- **Year Abroad in Brasil**

Sao-Paulo State, from 2014 to 2015

## EDUCATION

---

- **M.S. Robotics, GPA: 5.54/6**

Ecole Polytechnique Federale de Lausanne (EPFL)

Received the **Excellency Scholarship**

*2021*

- **B.S. Mechanical Engineering, GPA: 5.58/6**

Ecole Polytechnique Federale de Lausanne (EPFL)

*2018*

## SKILLS

---

- **High-Level Programming**

Python (Data-Science with Pandas, Machine Learning, Deep Learning & all purposes), Java (desktop apps, backend, android apps), Swift (iOS apps), Javascript (React, React-Native, Vue.JS), Matlab (Machine Learning), bash

- **Low-Level Programming & Electronics**

Rust, C, C++, PCB Design & Manufacturing with Kicad, Microcontroller programming

- **Linux**

Linux Proficiency, ROS2 (Python), Jetson Nano or with Raspberry Pi Ecosystems

- **Mechanical Engineering**

Catia, SolidWorks

- **Languages**

Fluent: French, English; Conversation level: Italian, Portuguese

## A FEW PROJECTS

---

- **Personal projects**

I always try to have a personal project, for instance I have done 2 chess engines and player, a text editor, a personal-website generator. Currently working a cpu 3D game engine. Checkout my list of personal projects for more information.

- **Robottle** [Youtube Link] [Github Repo]

In a team of 3 we designed an autonomous robot able to localize itself & travel to detect and pick plastic bottles in an arena. I was in charge of all the software of the robot. This project was selected by NVidia as a showcase project.

- **Roots, China Hardware Innovation Sensor** [Github Repo]

1.5 year long program, in a team of 5 skilled students (engineering and design), we designed a smart sensor for connected home and had the experience of an academic start-up while being introduced with the Chinese production supply chain.