Arthur Bricq

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I am a **Robotic Engineering** Student at EPFL with a Bachelor in **Mechanical Engineering**. Machine Learning, Autonomous Robots & Data Science are fields I am passionate about. Since ever I was very curious about programming and all kind of technologies that comes with it. I also have a good background in electronics. In my free time, I love to learn new technologies and do some programming. I also love all kind of outdoor sports, or simply spending time outside.

EXPERIENCE

- **Year Abroad in Canada**
  University of British Columbia (UBC) - Vancouver
  A year in Vancouver to finish my bachelor.
  Aug 2018

- **Mobile App Developer**
  I worked for the EPFL's Junior Entreprise to develop a complex mobile app and to advise the association on several other mobile projects. I learned the 3 of the most famous mobile app development framework: Swift, Java for Android & React Native
  2017 to Now

- **Teaching Assistant at EPFL**
  I was / am a teacher assistant in the following courses: Physics, Computer Science, Numerical Analysis & Legged Robotics.
  2017 to Now

- **Year Abroad in Brasil**
  Sao-Paulo State
  Year abroad during high-school, part of a cultural exchange program: charity actions in Brasil while learning Portugues.
  Aug 2014

EDUCATION

- **M.S. Robotics, GPA: 5.54/6 (currently)**
  Ecole Polytechnique Federale de Lausanne (EPFL)
  2021

- **B.S. Mechanical Engineering, GPA: 5.58/6**
  Ecole Polytechnique Federale de Lausanne (EPFL)
  2018

AWARDS & RECOGNITION

- **Excellency Scholardship, EPFL**
  Grant for best master students of EPFL

- **NVIDEA Showcase Project**
  I was contacted by NVIDEA to use my project Robottle as a 'showcase' of what is possible to do using their hardware Jetson Nano Board: `[Link]`

- **Data-Science course best project**
  EPFL course Applied Data Analysis, top 10 Best Projects Awards (out of 138 projects) `[Project Page]`

SKILLS

- **High-Level Programming**
  Python (Data-Science with Pandas, Machine Learning, Deep Learning & all purposes), Swift (iOS apps), Javascript (React, React-Native), Matlab (Machine Learning), Java (desktop apps, Android), bash.

- **Low-Level Programming & Electronics**
  C, C++, PCB Design & Manufacturing with Kicad, Microcontroller programming, Motor Control.

- **Linux**
  Linux Proficiency, ROS2 (Python). Worked a lot with Jetson Nano or with Raspberry Pi Ecosystems.

- **Mechanical Engineering**
  Catia, SolidWorks

- **Languages**
  Fluent: French, English, Portugues ; Conversation level: Italian.

A FEW PROJECTS

- **Robottle** `[Youtube Link]` `[Github Repo]`
  In a team of 3, we designed from scratch an autonomous robot able to localise itself & travel to detect and pick plastic bottles in an arena. I was in charge of all the software of the robot.
  C++, Python, Bash

- **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.

HOBBIES & INTERESTS

- All kinds of outdoor sports
- Yoga
- Open-Source