

# Rémi CLERC

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## Education

EPFL, Ecole Polytechnique Fédérale de Lausanne, Lausanne

**MSc in Electrical Engineering, specialization in Internet of Things** Sept. 2018 - (Dec. 2020)

**BSc in Electrical Engineering** Sept. 2015 - June 2018

Gymnase du Bugnon, Lausanne

**Swiss Matura Diploma, Physics and Applied Mathematics** Sept. 2012 - June 2015

## Professional Experience

**Embedded Software development Internship at Sigfox SA, France** Feb. 2020 - (Sept. 2020)

*Developing an end-to-end solution to gather data and pictures of birds in a Sigfox connected bird nest - [thehackinghouse.com](https://thehackinghouse.com)*

**Research Assistant at Embedded Systems Laboratory, EPFL** Sept. 2019 - June 2019

*Hardware compatibility and embedded Software in an embedded camera board - [esl.epfl.ch](https://esl.epfl.ch)*

**R&D Internship at REACT Group, EPFL** July 2018 - August 2018

*Electronics, programming and testing for a luggage trolley with assistive motorization - [react.epfl.ch](https://react.epfl.ch)*

## Academic Projects

**Image segmentation with Machine Learning** Sept. 2019 - Dec. 2019

*[Road Segmentation](#) - Comparing the performances of two ML models for road segmentation*

**Development of an app for tablet and smartwatch** Sept. 2018 - Jan. 2019

*[Lockbreaker](#) - a two-player asymmetric cooperative puzzle game*

**Development of an app for Nintendo DS gaming console** Sept. 2017 - Jan. 2018

*Dance It Out - a multiplayer competitive rhythm game*

## Technical skills

### Programming

*C, C++, Android SDK, Python, Matlab, Javascript (familiarity)*

### Electronic systems

*Android devices,  $\mu$ controllers (STM32), Arduino boards, FPGAs*

### Software

*Android Studio, EWARM, MDKARM, Arduino IDE, Linux, GitHub*

### Machine Learning

*PyTorch, Image segmentation, Image classification*

## Distinctions

**Texas Instruments Student Prize, for the Dance It Out game on Nintendo DS** 2018

**Gymnase du Bugnon Prize for English Skills** 2015

**M.-J. Visinand Creativity Prize, for a musical composition at Gymnase du Bugnon** 2014

## Languages

**French** *native language*

**English** *full professional proficiency*

**German** *Upper intermediate level*

## Interests

**Music**

**Hobby Electronics**

**Teaching**

**Theater/Improvisation**

**Programming**

**Associative Activities**