

# REMI MARCHE

Electrical engineering student



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ecstrema

French and Canadian National

## STUDIES

### EPFL – International study exchange

3RD SEMESTER OF MY BACHELOR OF ELECTRICAL ENGINEERING

Lausanne, Switzerland

Autumn 2022

### Electrical Engineering Student

POLYTECHNIQUE MONTRÉAL

Montreal, Canada

2021 – Présent

### Double degree in Natural Sciences and Music

CEGEP OF SAINT-LAURENT

Montreal, Canada

2018 – 2021

## TECHNICAL SKILLS

- Electronic: In-depth knowledge of FPGAs, VHDL, analog circuits and filters
- Embedded systems: used to limited memory/clock speed
- Circuit Design: Experience with Altium Designer and KiCad
- Fluid in C/C++, TypeScript (node/web) and Python.
- Linux proficiency – Daily use of Ubuntu and Arch. Comfortable on a terminal.
- All-rounder – Rust, Zig, SVG, Typography

## PROJECTS

- Synthesis project of college studies – Development of an innovative project in collaboration with industry. A Bluetooth scale and a website to teach handicapped children to walk again.
- Rotator - An embedded systems experiment: a video game and a 3d engine for the Nintendo DS with quaternions using only fixed point arithmetic
- MuseScore – more than 50 PRs for a FOSS project in C++.
- escaladelaurentides.ca – Development of the website for a climbing guidebook
- Entralpi – Contribution to the development of a React web application using the Web-Bluetooth API.
- Collaboration in the publication of 3 Quebec books – Two climbing guides and proofreading of a science fiction novel.

## PROFESSIONAL EXPERIENCE

### Frontend Dev

TYPESCRIPT, REACT, TAILWIND, NEXTJS

Lausanne, Switzerland, and Remote

december 2022 – september 2023

### Music teacher

TEACHING PIANO, SAXOPHONE AND GUITAR

Montreal, Canada

2017 – 2021

### Assistant Guardian – Cabane de Moiry

COOK, WAITER, DISHWASHER, RECEPTION

Grimontz, Switzerland

Summer 2018

## AWARDS AND RECOGNITION

2021 **1<sup>st</sup> place** – VST – Science popularization category *Montreal, Canada*

2017 **Highest distinction** – Alcide-Comptois Award – Saxophone *Montreal, Canada*

2014–17 **1<sup>st</sup> place, 2 times; 2<sup>nd</sup> place, 2 times** – Soloist and small ensemble competitions *Victoriaville, Canada*

## ABOUT ME

Effective collaborator, natural curious, interested in automating, passionate popularizer, resourceful mathematician and general sport and music addict.

## LANGUAGES

French • English • Spanish

## ASSETS

- Varied and deep knowledge in computer science
- Effective perfectionist
- Autonomous but able to refer to a superior if need comes
- Fluency in multiple languages
- Good adaptation capacity

## HOBBIES

- Climbing
- Playing piano and saxophone
- Mathematics
- Dad jokes
- Programming
- Outdoors

## OTHERS

- Many trips – More than thirty countries traveled in all modes of transport: bicycle, sailboat, bus, walking.
- Completed personal projects – Games of Dobble/SpotIt (climbing and swimming), writing short stories and poems, sold-out music concerts (up to 1000 people)
- Philosophy of simplicity: Happiness belongs to who makes people happy.