

# MAXIME LAROCHE

Montréal, Québec

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## EDUCATION

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### Bachelor of Software Engineering

2020 - 2023

Polytechnique Montréal

GPA : 3,34      Excellence scholarship received at admission.

### Bachelor of Electrical Engineering

2018 - 2019

Polytechnique Montréal

Excellence scholarship received at admission.

Changed to software engineering due to changed interests

## PROJECTS

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### Online Scrabble game

2021

- Collaboration with a team of six to implement an online scrabble game
- Agile development
- Angular used for client application, socket-IO for syncing games, NodeJS for server-side logic and MongoDB for data persistence
- <http://maximelaroche.gitlab.io/log2990-201/#/home>

### Autonomous Car

2021

- Little car that can navigate in its environment using ATmega324PA microprocessor
- Use of Ultrasound sensors to make sense of obstacles
- Project realized with C++
- management of the team to ensure good collaboration and to make sure due dates are respected

### TCP File Server

2021

- Design of a cloud local network cloud storage application using java
- Made to share large files between computers without having to use up limited bandwidth

## EXPERIENCE

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### Service engineering

January - August 2020

*Bombardier*

- Design of data collection and analyzing software made to optimize workflows within the company.
- Learning a new language (VBA) on the spot
- Project made with iterative design
- Ground support equipment design.

### Assistant researcher in nodal geometry

January - June 2018

*Ahuntsic College, Montreal*

- Test design and preparation to either prove or disprove theories elaborated by the researcher.
- Report results to the researcher.
- Part design using a 3D printer.

## GENERAL KNOWLEDGE

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### Programming languages

C++, Java, Python, Typescript, JavaScript

### General tools

Angular, NodeJS, Git, MS Office, LaTeX

### Languages

French and English