

# MAXIME LAROCHE

Montréal, Québec

(514) 348 - 0345 ◊ Maxime-1.Laroche@polymtl.ca

## EDUCATION

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### Polytechnique Montreal

August 2018 - May 2022

Bachelor of Electrical Engineering.

GPA : 3,4      Excellence scholarship received at admission.

Added algorithms courses in computer engineering due to my interest in artificial intelligence.

## PROJECTS

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### Media control system

Fall 2019

- Carry multiple audio signals, as well as state switches using a single wire to carry data.
- AM modulation used.
- Design of filters, amplification circuits, modulators.

### AM radio

Winter 2019

- Design in collaboration with another student of an antenna and a variable capacitor to capture frequencies from 540 - 1600 kHz.
- Good sound quality.

### Roulette game

Automne 2018

- Collaborative design with a team of five people to realize an electronic roulette game.
- Cost analysis.
- Practicability studies to compare multiple. designs

## EXPERIENCE

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### Service engineering

January - August 2020

*Bombardier*

- Ground support equipment design.
- Company management software design in VBA.

### Assistant researcher in nodal geometry

January - June 2018

*Ahuntsic College, Montreal*

- Test design and preparation for the researcher.
- Report results to the researcher.
- Part design using a 3D printer.

## GENERAL KNOWLEDGE

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### Programming languages

C++, Python, Matlab

### Analog and logic gate circuit design

Psoc Programmer, LtSpice , PSpice

### General tools

MS Office, Latex

### Languages

French and english