

Email : gabriel.descoteaux@polymtl.ca

Montreal, Quebec, Canada (514) 404-5254

Portfolio : gadese.github.io

Note: Refer to my portfolio for details on completed projects, and further general information!

Relevant information

- Knowledge in controls, artificial intelligence, computer vision, robotics, deep learning, ROS, etc.
- Fluent in French and English, and eager to learn and face new challenges
- Demonstrated excellent organizational, teamwork and project management skills as project leader

Education

M.Sc. in Mechanical Engineering – Robotics and Mechatronics systems

GPA: 4.00/4.00

2018-Today

Research Group in Design, Machine Learning and Optimization for Mechatronic Systems, Polytechnique Montréal

Thesis: Autonomous feeding-assistance system for people with upper body disabilities

B.Sc. in Electrical Engineering

GPA: 3.84/4.00

2015-2018

Polytechnique Montréal – Montréal, Quebec

Additional classes: Coursera's Deep Learning Specialization, Udacity's Artificial Intelligence for Robotics

Engineering Experience

Intern – Software developer

2018

Analogic Canada

Research intern in robotics

2015-2017

Research Group in Design, Machine Learning and Optimization for Mechatronic Systems, Polytechnique Montreal

- Robust design project
- Control – Facial recognition project

2017-2018

2015-2017

Research intern in biomedical imaging

2015

Laboratory of Optical Diagnoses and Imaging, Polytechnique Montréal

Personal Projects / Student Groups

Rubik's cube solving robot

2019

Deep learning challenges

2018-2019

Wearable glove to measure forces within fingers for rock-climbers

2017-2018

Self-balancing robot

2017-2018

PolyProject (Engineering student club)

2014-2018

- Developed an interactive control system for a robotic hand using an innovative fiber optic sensory glove
- Treasurer
 - Managed the group's finances. Upped the disposable income by over 4000\$ compared to the previous year by finding new sponsors and funding opportunities.
- Director of Communications
 - Managed recruitment of new members, publicity, social media and visibility for the group

2016-2017

2015-2016

Awards & Scholarships

Recipient of the prestigious and competitive FRQNT research grant for M.Sc. students

2019

Recipient of the JA DeSève award by Polytechnique Montreal

2019

Recipient of the prestigious and competitive NSERC research grant for M.Sc. students

2018

Recipient of the CMC Électronique award by Polytechnique Montreal

2017, 2018

Recipient of the competitive NSERC Summer research grant for undergraduate research

2015, 2016, 2017

Recipient of the Vedel award by Polytechnique Montreal

2016

Recipient of the Hatch Ltd. award by Polytechnique Montreal

2015