## GABRIEL DESCÔTEAUX

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Portfolio: gadese.github.io

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

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Relevant information	
<ul> <li>Knowledge in controls, artificial intelligence, computer vision, robotics, deep learning, ROS, etc.</li> </ul>	
Fluent in French and English, and eager to learn and face new challenges  Personature descriptional transported and project recommendations are recommendations.	
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
Thesis: Autonomous feeding-assistance system for people with upper body disabilities Tools used: Keras, Tensorflow, ROS, Gazebo, MoveIt!, Kinova Mico	
Research Group in Design, Machine Learning and Optimization for Mechatronic Systems, Polytechnique	2010
Montréal Recipient of the prestigious and competitive FRQNT research grant for M.Sc. students	2019 2019
Recipient of the JA DeSève award by Polytechnique Montreal	2018
Recipient of the prestigious and competitive NSERC research grant for M.Sc. students	2015-2018
B.Sc. in Electrical Engineering GPA: 3.84/4.00	
Polytechnique Montréal – Montréal, Quebec	2017, 2018
Recipient of the CMC Électronique award by Polytechnique Montreal Recipient of the Vedel award by Polytechnique Montreal	2016 2015
Recipient of the Hatch Ltd. award by Polytechnique Montreal	2013
Relevant classes: AI: Methods & algorithms, AI: Probabilistic & learning techniques, Practical	
Reinforcement Learning, 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	
Recipient of the competitive NSERC Summer research grant for undergraduate research	2016-2017
- Robust design of a drone project using various optimization techniques	2017-2018
- Control – Facial recognition project	2015-2017
Research intern in biomedial imaging	2015
Laboratory of Optical Diagnoses and Imaging, École Polytechnique de Montréal Recipient of the competitive NSERC Summer research grant for undergraduate research	
Personal Projects / Student Groups	
Learning Reinforcement learning	2019-Today
Tools used: Keras, Tensorflow, OpenAI Gym, Deep reinforcement learning (DDPG, PPO, DQN, etc.)	-
Duckietown AI competition & other coding challenges	2018-Today
Tools used: Keras, Pytorch, OpenAI Gym, Deep reinforcement learning (DDPG)	
Rubik's cube self-solving robot	2019
Tools used: OpenCV(computer vision), Machine learning(sci-kit learn), ROS, 3D printer, Python	_01/
Wearable glove to measure forces within fingers for rock-climbers	2017-2018
Self-balancing robot	
PolyProject (Engineering student club)	2017-2018
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