## John G. Willes

john.willes@mail.mcgill.ca https://jwilles.github.io

EDUCATION	McGill University, Montreal, Canada Bachelor of Engineering, Honours Mechanical (With Distinction) CGPA: 3.71/4.00 Thesis: "Application of Fitts' Law for Haptic Performance Evaluation" Key Courses: Control Systems, Optimization of Engineering Systems, Introduction to Robotics, Applied Electronics		2011-2016
WORK &	Timeplay Inc, Toronto, ON		2017-Present
RESEARCH EXPERIENCE	Full-Stack Developer Center for Intelligent Machines, McGill University		2015-2016
EXI EIGENCE	Research Assistant, Supervisor: Jozsef Kovecses		2013-2010
	H. Rand GmbH, Neuhofen, Germany		2014
	Mechanical Engineering Intern		2012
	Bombardier Aerospace, Montreal, QC Project Management Intern		2013
	Bombardier Aerospace, Montreal, QC		2012
	Mechanical Engineering Intern		
EXTRA- CURRICULAR	McGill Autonomous Underwater Vehicle Design Team Pressure Vessel Team Leader		2013-2014
ACTIVITIES	McGill Lunar Excavator Design Team Frame Team Member		2012-2013
SKILLS	Languages: Programming: Frameworks & Tech: Databases: Deployment: GitHub: Software: CAD: Hardware: Manufacturing:	English, French, German Ruby, Python, Javascript, C, MATLAB Node.js, Angular2, Express.js, React, Ruby on Rails MySQL, SQLite, MongoDB Amazon Web Services, Digital Ocean, Heroku https://github.com/Jwilles Maple, Simulink SolidWorks, Autodesk Inventor General Electronics, Arduino, Raspberry Pi Rapid Prototyping, Machining, Welding	
AWARDS	McGill Faculty of Engineering Scholarship NSERC Undergraduate Student Research Award		2012 2015

PUBLICATIONS C. Gallacher, J. Willes, J. Kovecses. Parasitic effects of device coupling on haptic performance. IEEE World Haptics Conference (WHC), Chicago, IL, 2015.

> A. Mohebbi, C. Gallacher, J. Harrison, J. Willes, S. Achiche. Integrated Structure-Control Design Optimization of an Unmanned Quadrotor Helicopter for Object Grasping and Manipulation. International Conference on Engineering Design (ICED), Vancouver, BC, 2017