

John Willes

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<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 & RESEARCH EXPERIENCE	Timeplay Inc , Toronto, ON Software Engineer Center for Intelligent Machines , McGill University Research Assistant, Supervisor: Jozsef Kovecses H. Rand GmbH , Neuhofen, Germany Mechanical Engineering Intern Bombardier Aerospace , Montreal, QC Project Management Intern Bombardier Aerospace , Montreal, QC Mechanical Engineering Intern	2017-Present 2015-2016 2014 2013 2012
PROJECTS	McGill Autonomous Underwater Vehicle Design Team Pressure Vessel Team Leader McGill Lunar Excavator Design Team Frame Team Member	2013-2014 2012-2013
SKILLS	<i>Languages:</i> English, French, German <i>Programming:</i> Ruby, Javascript, Python, MATLAB/Octave, C, Rust <i>Frameworks & Tech:</i> Node.js, Ruby on Rails, React <i>Databases:</i> MySQL, MongoDB, Redis <i>Deployment:</i> Amazon Web Services, Heroku, Digital Ocean <i>GitHub:</i> https://github.com/jwilles <i>Software:</i> Maple, Simulink <i>CAD:</i> SolidWorks, Autodesk Inventor <i>Hardware:</i> General Electronics, Arduino, Raspberry Pi <i>Manufacturing:</i> 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. <i>IEEE World Haptics Conference (WHC)</i> , 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. <i>International Conference on Engineering Design (ICED)</i> , Vancouver, BC, 2017	