

# Alexander Hong

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CONTACT	thealexhong@gmail.com Toronto, ON Canada		GitHub: @thealexhong Website: thealexhong.github.com		
RELEVANT EXPERIENCE	<b>Entrepreneur</b>				
	Product Hacker		Feb 2015 - present		
	<ul style="list-style-type: none"><li>Co-founded Ticket Warrior and Robot Playtime with 2 partners, leading in software engineering and UI/UX</li><li>Designed, developed, and released cross platform mobile and full-stacked web applications in a fast-paced environment</li></ul>				
	<b>Epson Canada</b> , Markham, Ontario				
	Computer Vision Software Engineer Intern, <i>R&amp;D</i>		May 2012 - Aug 2013		
	<ul style="list-style-type: none"><li>Analyzed cascade object detection and keypoint matching algorithms in MATLAB to be used in adaptive robotics, improving algorithm pipeline's performance by &gt; 30%</li><li>Developed evaluation software tools in C++ for machine vision algorithm solutions analysis, providing effective feedback of algorithm's performance to research team</li><li>Built frameworks for automating both code-driven and GUI software testing, reducing testing process time by 75%</li></ul>				
	<b>MDA Corporation</b> , Brampton, Ontario				
	Autonomy & Controls Lead, <i>Space Systems Design</i>		Sept 2013 - Dec 2013		
	<ul style="list-style-type: none"><li>Designed a space system for orbital debris removal using top-down design methodology, leading to rigorous system design reviews</li><li>Led team in addressing the command &amp; control aspects of the design, creating control systems and software architectures in accordance to stakeholders' requirements</li></ul>				
	<b>University of Toronto</b> , Toronto, Ontario				
	Flight Simulation Research Intern		Summer 2011		
	<ul style="list-style-type: none"><li>Improved upset recovery training for pilots by implementing stall-warning and stall-recognition software onto flight simulator</li></ul>				
	<i>Autonomous Robotics Design Competition</i>		Winter 2011		
	<ul style="list-style-type: none"><li>Designed successful autonomous robot to deploy traffic-cones onto roads with unsafe conditions</li><li>Led team in programming MCU logic, and designing sensor circuits, ranking top 5 in contest</li></ul>				
TECHNICAL SKILLS	C/C++/Java Python/Ruby Android/iOS Machine Learning	*nix/Shell HTML(5)/CSS MVC/Flux Computer Vision	MATLAB/Octave MeteorJS/NodeJS OOP Design Optimization	SQL/NoSQL Parse/mongoDB Test Automation Robotics	Git/SVN React/Angular UI/UX Aerospace
EDUCATION	<b>University of Toronto</b> , Toronto, Ontario				
	M.A.Sc., Autonomous Systems and Biomechatronics Lab		2014 - present		
	<ul style="list-style-type: none"><li>Thesis: Multi-modal Affect Recognition in Human-Robot Interaction</li></ul>		(Computer Vision)		
	B.A.Sc. in Engineering Science (Aerospace)		June 2014		
	<ul style="list-style-type: none"><li>Thesis: Multi-Robot Cooperation in Urban Search &amp; Rescue</li></ul>		(Machine Learning)		
INTERESTS	Startups, Technology, Dragonboat Racing, Gymnastics, Rock Climbing, Painting, Hackathons				