

# RYAN ALAN ANDERSON

**BASc, BSc, MASc, P.Eng**

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## PROFESSIONAL EXPERIENCE

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Sep. 2017-present	<b>Founder, President</b>	<i>Satellite Canada Innovation Network</i>
	<ul style="list-style-type: none"><li>- Founded Not-For-Profit in 2017 to improve Canadian commercial space sector</li><li>- Led \$328M Innovation Supercluster Initiative application</li><li>- Provide over 30 SMEs with expert business and technical consulting</li><li>- Established Optical Satcom R&amp;D Consortium with NRC and 15 member organizations</li><li>- Grew revenues to over \$400,000 for 2019</li><li>- Grew corporate network from zero to hundreds of companies and organizations</li></ul>	
Oct. 2016-present	<b>Founder, Principal Consultant</b>	<i>QShift Inc.</i>
	<ul style="list-style-type: none"><li>- Founder and lead engineer of satellite and communications consulting company</li><li>- Clients include: DND, Urthecast, SSCL, MCSS, DRDC</li><li>- Annual revenues in excess of \$200,000</li><li>- Extensive work with COSPAS-SARSAT ground and space segments</li><li>- Lead engineer/researcher Earth Observation, communications projects</li></ul>	
Aug 2016-Oct. 2016	<b>Senior Systems Engineer</b>	<i>Urtbecast</i>
	<ul style="list-style-type: none"><li>- Lead system design of Cross Cueing on OptiSAR constellation</li><li>- Maintain Agile environment and sprint planning</li><li>- Lead development of constellation commissioning and validation plans</li><li>- Review and approve design documentation for SRR and PDR phases</li><li>- Lead FPGA development projects</li></ul>	
Aug 2014-Aug 2016	<b>Senior Advanced Systems Engineer</b>	<i>Telesat</i>
	<ul style="list-style-type: none"><li>- Lead system design of ultra-high throughput satellites</li><li>- Develop business case for LEO Vantage constellation</li><li>- Lead technical teams of 2-10 personnel examining company challenge areas</li><li>- Develop formal innovation processes and provide training</li><li>- Led RFI and RFP definition for LEO Vantage Constellation and Pilot satellites</li><li>- Negotiate LEO Prototype satellite contract terms (total contract value \$25-30M)</li><li>- Prepare statement of work (SOW), test plan, product assurance plan</li><li>- Prepare and present technical briefings for executive on advanced satcom technology</li><li>- Prepare interference and RF design performance analysis reports</li></ul>	
Mar.2006-Aug. 2014	<b>Senior Satellite Engineer</b>	<i>Telesat</i>
	<ul style="list-style-type: none"><li>- Spacecraft and launch procurement and technical reviews</li><li>- Failure review boards, design reviews (PDR, CDR, FRR)</li><li>- Monitor and approve thermal vacuum, vibration, payload and mechanical tests</li><li>- Launch and early operations (LEOP) and In-orbit Test (IOT) engineering</li><li>- Expertise with satellites from SSL, Boeing, Lockheed, Astrium/Airbus</li></ul>	

## RELATED EXPERIENCE

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Dec 2018-present	<b>President</b> <ul style="list-style-type: none"><li>◆ Grew annual revenues from less than \$50,000 to over \$300,000</li><li>◆ Grew volunteer base from 7 to 25 in 2019-2020 fiscal year</li><li>◆ Led governance and corporate restructuring in 2020</li></ul>	<i>Canadian Space Society</i>
Jan 2017-Dec. 2017	<b>Vice President</b> <ul style="list-style-type: none"><li>◆ Developed CSS strategy &amp; goals for 2017 - 2022</li></ul>	<i>Canadian Space Society</i>
Jan 2012-Jul 2013	<b>Freelance Writer</b> <ul style="list-style-type: none"><li>◆ Eleven articles published in US and Canadian versions of industry magazine</li></ul>	<i>Space Quarterly</i>
Jan 2010-Jan 2015	<b>Chair, Ottawa Chapter</b> <ul style="list-style-type: none"><li>◆ Prepare agendas, chair meetings, set and establish chapter goals and direction</li></ul>	<i>Canadian Space Society</i>
May 2010 – May 2012	<b>Marsville</b> <ul style="list-style-type: none"><li>◆ Evaluated student designs of Mars habitats</li></ul>	<i>National Research Council Canada</i>
Dec.2004-Jan.2005	<b>Narrator and Scriptwriter, NEO Documentary</b> <ul style="list-style-type: none"><li>◆ Wrote, performed and edited script for documentary on Near-Earth Objects (NEO)</li></ul>	<i>Space Generation Advisory Council</i>
Dec.2004-Jan.2005	<b>Crew Engineer, Mars Desert Research Station</b> <ul style="list-style-type: none"><li>◆ Responsible for all mechanical systems in research simulator</li></ul>	<i>Mars Society International</i>

## CERTIFICATIONS AND AFFILIATIONS

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Sept. 2020	<b>Board of Directors for SSSOC (a for-profit tech startup)</b>
May 2020	<b>Governor General's Canadian Leadership Conference</b>
Aug. 2016	<b>Red Cross Emergency First Aid &amp; CPR – Health Care Provider Level</b>
Aug. 2016	<b>PADI Open Water Scuba Certification</b>
Sept. 2015	<b>Board of Advisors, Students for the Exploration and Development of Space (SEDS)</b>
Mar. 2014	<b>Board of Directors, Canadian Federation for ISU</b>
Jan. 2014	<b>ASTRO Executive, Canadian Aeronautics and Space Institute</b>
Jan. 2011	<b>Treasurer, Canadian Space Society Ottawa Chapter (~\$20,000 in assets)</b>
Dec. 2010	<b>Professional Engineer of Ontario</b>
Dec. 2010	<b>Black Belt, Tae E. Lee Taekwondo</b>
Dec. 2010	<b>Chair, Canadian Space Society Ottawa Chapter</b>
Jan. 2009	<b>Member, American Institute of Aeronautics and Astronautics (AIAA)</b>
Jul. 2007	<b>Green Belt, Six Sigma</b>
Mar. 2006	<b>Canadian Controlled Goods Program (CGP)</b>
Mar. 2006	<b>International Traffic in Arms Regulations (ITAR)</b>

## EDUCATION

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Jan.2012 – Apr. 2014	<b>Master of Applied Science, Aerospace Engineering</b> <ul style="list-style-type: none"><li>◆ "Thermal Environment of Telesat Tundra Orbit"</li></ul>	<i>Carleton University</i>
Sep.2000 – Apr. 2004	<b>Bachelor of Applied Science, Mechanical Engineering</b> <ul style="list-style-type: none"><li>◆ Conferred <i>cum laude</i></li></ul>	<i>University of Ottawa</i>
Sep.2000 – Apr. 2004	<b>Bachelor of Science, Computing Technology</b> <ul style="list-style-type: none"><li>◆ Conferred <i>cum laude</i></li></ul>	<i>University of Ottawa</i>