



JOHN MARIS

Education and Professional Certifications

- 2012 - Ph.D. Candidate Aviation Safety and Human Factors, Embry-Riddle Aeronautical University, Florida.
- 2011 PMI® Certified Project Management Professional (PMP®)
- 1988 - 1989 USAF Experimental Test Pilot Course 88B, Edwards, CA.
- 1982 - 1983 Master of Aviation Management (MAM) with Distinction, Embry-Riddle Aeronautical University Fl.
- 1980 - 1982 Master of Aeronautical Science (MAS) with Distinction, Embry-Riddle Aeronautical University, Florida.
- 1977 - 1979 Bachelor of Aeronautical Engineering, Imperial College of Science and Technology, London University.

Work Experience

- 2014 - **Chair of the Aerospace Industries Association of Canada (AIAC) and Chair of the AIAC Small Business Committee.**
- 2008 - **CEO, Advanced Aerospace Solutions, LLC.** Principal flight-test investigator and test pilot for NASA's TASAR program flight trials. Received NASA Group Achievement Award and 2014 NASA Small Business Subcontractor of the Year Award for the TASAR flight-test program.
- 1995 - **President, Marinvent Corporation.** Developed the world-standard for certified aviation electronic charting applications. Recipient of numerous awards including an Aviation Week Laureate, the 2013 Aerospace Industries Association of Canada (AIAC) Floyd Trophy, QC Aerospace enterprise of the year, and the Canadian American Business Achievement Award.

- 1993 – 1995 **International Space Station MCE Manager, Canadian Space Agency.** Responsible for the systems engineering of the MSS Robotics Control Station (MRCS), Artificial Vision Unit, and Operations Control Software for the Canadian robotic systems. Led a multinational, multi-disciplinary, team through the MRCS requirements definition and concept design stages. These included the design and conduct of evaluations performed by NASA astronauts to define the man-machine interfaces for the Space Station Remote Manipulator System (SSRMS) and Special Purpose Dexterous Manipulator (SPDM).
- 1983 - 1993 **Project Officer and Experimental Test Pilot, Canadian Department of National Defence (DND) Aerospace Engineering Test Establishment (AETE).**

Certification and Qualifications

- ▶ FAA, Transport Canada, CAA (UK), and JAR (European) Airline Transport Pilot licenses, with numerous type and instructor ratings, both fixed and rotary wing, land and sea; Transport Canada Delegated Test Pilot (DAR 305) with Type Rating Exemption. Over 6,000 hours of flight time.
- ▶ Fellow of the Canadian Aeronautics and Space Institute (CASI) and Royal Aeronautical Society (RAeS).
- ▶ Associate Fellow of the Society of Experimental Test Pilots & the American Institute of Aeronautics and Astronautics.
- ▶ Member of the Québec Order of Engineers (OIQ).
- ▶ PMI® Certified Program Management Professional (PMP®).
- ▶ Member of the Human Factors and Ergonomics Society.
- ▶ Committee Member and author for RTCA Standing Committee SC181 for the development of the industry standards for electronic mapping and symbol data.

Selected Awards

- 2015 **2014 NASA Small Business Subcontractor of the Year** (Advanced Aerospace Solutions, LLC.) for the Traffic Aware Strategic Aircrew Requests (TASAR) flight-test program.
- 2014 **NASA Group Achievement Award** for the Traffic Aware Strategic Aircrew Requests (TASAR) program.
- 2013 **Aerospace Industries Association of Canada (AIAC) Floyd Award** “for exceptional contributions to the Canadian aerospace industry. Marinvent’s accomplishments have brought far-reaching national and international benefits for the image and stature of Canada’s aerospace industry that far exceed the modest size of the company. Its research alliances, industrial accomplishments and aerospace advocacy have been praised around the world and serve as a shining example of Canadian aerospace prowess on the international stage.”

- 2013 **C2-MTL Innovation Award** for the Avanti Adaptive Flight Test-Bed.
- 2011 **New Zealand Minister of Defence Award of Excellence to Industry.**
- 2006 **Canadian Business Aviation Association (CBAA) Industry Support Safety Award** “...for the safety gains achieved through human factors enhancement, systems engineering, and flight test services” and **CBAA Award of Merit** “...in recognition of an outstanding contribution to aviation.”
- 2005 **Aviation Week and Space Technology Laureate** for “...helping the transition from paper in the cockpit to a digital flight deck.”
- 2005 **Canadian Aeronautics and Space Institute: Trans-Canada (McKee) Trophy**, the oldest aviation award in Canada. “...The greatly coveted McKee Trophy is awarded to the Canadian whose achievements were most outstanding in promoting aviation in Canada. The achievement recognizes may be a single brilliant exploit within the past year, or a sustained high-level performance in recent years.”
- 2004 **Canadian American Business Achievement Award** for leading “...a joint enterprise demonstrating: strong business growth, remarkable innovation, noteworthy contributions to the local communities, and the capacity to provide the partners with a global advantage.”
- 2004 **DEKA Innovation Award** from the Montréal Hellenic Business Community for inventing the world-standard for certified electronic aeronautical charts.
- 1991 **Canadian Aeronautics and Space Institute Ronaasen award** for the best Flight Test Paper: “The Turbulence Intensity Parameter as a Basis for Stall Prediction.”
- 1989 **USAF Test Pilot School** award for highest flight grades for Performance and Flying Qualities phases, and top class standing on comprehensive final examination.
- 1988 **DND O’Brien Trophy:** as CP 140 Aurora Crew Commander, trained and commanded the Canadian national anti-submarine warfare championship crew.
- 1985 CP140 (Aurora) Operational Training Unit: recipient of top student award for Maritime Operational Aircrew Training Course 8502.
- 1985 **Golden Centenaire Trophy** “In recognition of superior achievement in all phases of basic flying training at 2CFFTS Moose Jaw, Course 8307.” Also received awards for: highest academic standing, highest flying ranking, and top overall student.

Selected Publications (alphabetically, by title)

- ▶ Author of numerous worldwide patents in the fields of human factors engineering, signal detection, and tactical displays.
- ▶ Advanced General Aviation Transport Experiments (NASA AGATE) *Pilot Decision Support System (DSS) Systems Requirement Document (SRD) v1.0* May 1, 1998.
- ▶ *The Application of Signal Detection Theory to the Certification of Optional Aircraft Safety Systems*. Dr. Alexander Ilyin, John Maris, Marinvent Corporation, Feb 2, 2006.
- ▶ *Human Factors Flight Trial Analysis for 2D Situation Awareness and 3D Synthetic Vision Displays*. Dr. Jens Schiefele, John Maris, et al. Proceedings of SPIE, Volume 5424 Enhanced and Synthetic Vision 2004, Jacques G. Verly, Editor, August 2004, pp. 50-60.
- ▶ *Human Factors Flight Trial Analysis for 3D SVS*. Dr. Jens Schiefele, John Maris, et al. Enhanced and Synthetic Vision 2005. Jacques G. Verly, Editor. Proceedings of the SPIE, Volume 5802, pp. 195-206 (2005)
- ▶ *Synthetic Vision System Flight Trial Programs*. A lecture presented at the 3rd Annual General Meeting of the Royal Aeronautical Society, September 6, 2005.
- ▶ *Test System Design for the Airborne Verification of Synthetic Vision Databases*. Presented to the 2001 ATIO Conference of the American Institute of Aeronautics and Astronautics. AIAA 2001-5274.
- ▶ *The Unorthodox Application of Commercial-off-the-shelf (COTS) Technologies to Systems Flight Testing*, John Maris, Sam Grainger. Presented at the 47th Annual Conference of the Canadian Aeronautics and Space Institute, 2000.