

Technology Showcase Participants 2019

Technology continues to encompass implicitly almost every aspect of commercial and consumer-related activities around the world today. Across numerous industries, digital is seen as the principal driver to keep organizations current, while providing a competitive edge over others. This is a common trend in the defence industry, and it will be highlighted at the Best Defence Conference 2019, held on November 5-6.

The Best Defence Conference is a defence and advanced manufacturing event, which takes place each November in London, Ontario. The event, which is organized by Pilot Hill Ltd, will bring together companies from across Canada to learn of Canadian and defence procurement opportunities.

As a conference and exhibition, Best Defence usually draws over 350 attendees and is starting to attract a small but growing international audience mainly from the the UK, Germany, Israel and the USA.

“Best Defence provides one of the best networking opportunities in the defence sector in Canada with many key military, government and industry leaders attending,” said Heather Pilot, President, Pilot Hill Ltd. “Due to its smaller size, the event offers an intimate forum to establish relationships, conduct market research on Canadian defence procurement opportunities, and an excellent platform to forge strategic partnerships.”

A growing tradition at the conference is the Technology Showcase, where many innovative startups and small companies are given the chance to present their unique technologies to partici-

pants. Those companies have the opportunity to do a three-minute pitch to the audience to explain what’s so unique about their technology and how it can fit into defence.

Best Defence continues to showcase Small Medium Enterprises (SMEs) with novel technologies from companies new to the aerospace, defence, and security sectors. While heavily weighted by Ontario SMEs, the showcase is open to companies from across Canada and, indeed, to some international companies with compelling technology. “It’s about positioning them for success by exploring issues and trends such as cybersecurity, supply chain resiliency, advanced materials and autonomous vehicles,” said Pilot. “And most importantly, it offers exposure to government programs such as Innovative Solutions Canada, Department of National Defence, IDEaS and the suite of assistance available from their federal advocates at FedDev Ontario.”

Best Defence is now in its eighth year and has grown over time to include land, sea and air domains from when it first started out as a platform for land vehicles.

“We always try to devise a new and exciting program each year that will offer attendees value and business opportunities. “One of our UK exhibitors said the conference was one of the best networking events they had ever attended and Brian Jamieson of Vigurus Technologies puts it this way, ‘Best Defence, Best Value’. So we are looking to maintain that standard,” said Pilot.

Below is a foretaste of some of the technologies that will be on show at Best Defence 2019. ■



ADAM NETWORKS

London/Aylmer, ON

Presenting: David Redekop, Founder & CEO

Email: David@adamnet.works

New Generation network defence technology that outperforms the traditional philosophy of top Enterprise Grade systems. Authors of the Bright Web. Defeat the inevitable nation-state attacks on your operations by changing the rules of the game. ADAMnetworks™ represents a new philosophy on Internet Security that allows you to dynamically re-shape the Internet to effectively only contain who and what you choose it to. Operating on a Zero Trust model (made practical via AI), and a new class of Egress Control, the adam:ONETM system uses dynamic Adaptive Whitelisting to reduce your attack surface to near zero. Circumvention tools like Psiphon are completely defeated and attackers on your network are neutralized by preventing all unauthorized outbound communication.



CROSSWING

Aurora, ON

Presenting: Stuart Pickard, VP Business Development

Email: stuartp@crosswing.com

CrossWing Inc. provides a series of 4’-6’ interactive robots based on its robust holonomic robotics platform which is also offered to select OEMs and third-party solution integrators to accelerate their vertical market-specific robot-centric offerings. Unlike other robotics hardware, CrossWing’s platform is designed for affordable injection-molding mass-production, plus open software APIs for both full motion and 360° imaging control. Together with CrossWing’s patent protection, these elements form a turn-key offering that empowers the design and low-cost manufacture of customizable semi-autonomous and autonomous robots addressing specific vertical market demands. CrossWing-ATS Inc. is developing MATILDA, a Micro-rail Autonomous Transit & Interactive Large-scale Delivery Automation system, for moving people, goods, and services elevated within lightweight pods moving on composite rails supported by slim poles on municipal right-of-ways and other topologies.



FORCEN INC.

Toronto, ON

Presenting: Robert Brooks, President

Email: robert.brooks@forcen.tech

Forcen Inc.'s 'ForceFilm System' provides precision multi-dimension force sensing and haptic force control/simulation solutions. The ForceFilm System measures strain created by application of force/pressure on any stiff surface or part—that the ForceFilm (0.15mm thick) is laminated on. The surface or part can be of any complex shape or geometry. The strain can be measured in multiple-points or dimensions, due to the array of sensors integrated into the thin ForceFilm. Electronically-processed noise-free data transmission (Wireless or Wired). Applications include human machine interfaces, aerospace diagnostics, and smart rifle systems. Preventive maintenance includes military vehicle static mounts, robotic systems, and manufacturing/tooling/jigs.



IRISTEL CYBERSECURITY

Markham, ON

Presenter: Neil Liu, VP Cybersecurity Operations

Email: nliu@iristel.com

Iristel Cybersecurity brings market disruptive cyber solutions to small and medium enterprises (SMEs). Fully understanding the typical challenges facing SMEs in cybersecurity management, our market-tested, purpose-built, AI-backed next-gen cyber solutions are fast and easy to deploy, hassle-free, and cost only a fraction of market standard options while delivering more effective results and ROI. Our AI-based cybersecurity solutions have been tested against various advance-level malware and utilize artificial intelligence (AI) and machine-learning algorithms, allowing the system and SOC to identify cyber incidents immediately and stop threats in real-time. Our systems also integrate with many top SIEM Enterprise architectures and allow for a level of forensics investigation and real-time process termination.



IMRSV DATA LABS

Ottawa, ON

Presenting: Melissa Clark, Director Business Development

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At IMRSV Data Labs, we apply cutting-edge machine learning to solve our customers' most pressing information management problems. As global leaders in the field, we aim to improve how machines process, understand and interpret natural language. We specialize in building customized solutions in classification and machine vision with unstructured data while delivering the fastest and most accurate technology available.



PLEORA TECHNOLOGIES

Kanata, ON

Presenting: Leslie Bayford, User Experience Design Manager

Email: Leslie.Bayford@pleora.com

Global military manufacturers rely on Pleora's products, standards expertise, and systems knowledge to bypass development and integration complexities in mission-critical local situational awareness, remote weapon station, driver enhancement, and surveillance applications. The Rugged-CONNECT Smart Video Switcher platform is a modular, scalable, open approach to real-time sensor networking that helps manufacturers meet interoperability and scalability demands in SWaP-C sensitive applications while reducing cognitive burden and increasing mission-effectiveness for end-users. Pleora's sensor interfaces revolutionized the industrial automation market, and now we're bringing new levels of awareness and intelligence to security and defense applications.



IO INDUSTRIES INC.

London, ON

Presenting: Andrew Searle, Sales Manager

Email: asearle@ioindustries.com

IO Industries Inc. manufactures high-performance digital video cameras and video recording equipment, used worldwide for applications in defense and aerospace testing, academic research, machine vision, live sports broadcasting and virtual reality content creation. IOI's video recording technology allows many high-performance video cameras to be synchronously recorded with no video compression, so as to maintain the best quality for post-processing. Our roots in multi-camera instrumentation systems for flight dynamics, motion analysis, and visual inspection applications have led IOI's products to a new popular application: volumetric video capture studios. These studios create high-fidelity three-dimensional holograms of human performances, reconstructed from many simultaneous camera viewpoints of the subject. Volumetric video invokes a high level of engagement, and apart from consumer use in media and games, it can be used for ultra-realistic simulation and training in medical, industrial and defense settings.



TAIGA ROBOTICS

Toronto, ON

Presenting: Dmitri Ignakov, CEO/Founder

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Taiga Robotics is a Toronto-based company working at the forefront of extended reality (XR), robotics, and artificial intelligence (AI). We have developed a platform that connects a user's senses and actions to any electronically controlled machine, turning it into an avatar of the user controlled in XR. In doing so, we make it possible to use robots for applications that were otherwise inaccessible, providing improved safety and operational efficiency.