





TAVOLO CANADA

Canada & Italy
Partners in Automotive, Connected Vehicle &
Innovation

WORKSHOP

PARTICIPATING CANADIAN COMPANIES

COMPANY	PROFILE
ANSWER PRECISION www.answerprecision.com 	<p>Answer Precision (APT) is a Manufacturing Technology Center that offers innovative value driven, full service solutions to its customers utilizing diverse machining and manufacturing capabilities. APT provides premium quality products and assemblies from Design & Build to Inspection, servicing the Automotive, Aerospace, Medical and Energy sectors. APT is a supplier of gauging and check fixtures. APT offers a service of low to medium serial production runs of close tolerance and complex multi-axis machining and mechanical devices, as well as prototype development, tooling and automation equipment. Answer Precision is a preferred supplier to Air Canada for Tooling and Service Equipment (Kits, Components and Assemblies).</p>
APMA www.apma.ca 	<p>APMA is Canada's national association representing OEM producers of parts, components, systems, equipment, tools, supplies and services for the worldwide automotive industry. APMA members account for 90% of parts, components and systems production in Canada. APMA's objective is to promote the OEM automotive supply manufacturing industry domestically and internationally, providing important representation for government, supporting government initiatives, and creating and executing global marketing initiatives to develop trade and business opportunities for its membership. In 2011, APMA created a Connected Vehicle Working Group.</p>
AUTO21 www.auto21.ca 	<p>AUTO21 is a national research initiative for the automotive and connected vehicle sectors supported by the Government of Canada through the Networks of Centres of Excellence Secretariat. AUTO21 brings together nearly 200 top Canadian researchers at 46 universities and connects them with 120 industry and government partners with a focus on automotive and connected vehicle. With a total investment of more than \$100 million in private and public sector funding.</p>
BLAKE, CASSELS & GRAYDON LLP www.blakes.com 	<p>Blake, Cassels & Graydon LLP (Blakes) is one of Canada's leading and largest business law firms. Blakes has a strong automotive practice, acting for Tier 1 suppliers, OEMs, importers/distributors, franchisors, franchisees and other sector participants. Blakes regularly receives the highest domestic and international rankings of Canadian law firms and lawyers, and ranks at the top of league tables for Mergers & Acquisitions transactions.</p>





PARTICIPATING CANADIAN COMPANIES

COMPANY	PROFILE
COGNIVUE CORPORATION www.cognivue.com 	<p>CogniVue is a semiconductor and embedded software company with 35 employees. The company manufactures AEC-Q100 and TS 16949 programmable processor chips and embedded image processing software and can provide programmable image processing chips and embedded software for smart rear cameras and other automotive driver assistance systems.</p>
HBPO NORTH AMERICA www.hbpogroup.com 	<p>HBPO is the only world-wide company which is exclusively specialized in design, development, assembly and logistics of integrated front-end modules. Emerging technologies in vehicle front end modules with a focus on weight reduction and pedestrian protection. HBPO has a broad experience and a track record for producing light weight front-end carriers using a wide variety of manufacturing technologies from plastic metal hybrid solutions to all magnesium alloy carriers. HBPO has also worked with light-weight aluminum based crash management systems and sophisticated extended polypropylene based pedestrian protection.</p>
INTELLIGENT MECHATRONICS INC. (IMS) www.intellimec.com 	<p>Intelligent Mechatronics Inc. (IMS) is a full service supplier of connected vehicle technology, including turnkey M2M, and voice powered human machine interface (HMI) solutions to OEMs and other entities. IMS' core competency and product focus is the development and delivery of safer, smarter, and greener connectivity technology and advanced HMI features for in-vehicle integration. These solutions are backed by comprehensive end-to-end support from logistics to data hosting, secure storage, and online user portals.</p>
INVOTRONICS INC. www.invotronics.com 	<p>Invotronics is a tier 1&2 global supplier to the OEM automotive industry. Invotronics has developed and produced a wide range of electronic and electro-mechanical products including: motion controls, interior switches, actuators, key fobs, RF antennae, instrument clusters, coil assemblies, data bus and gateway modules and engine controls. Invotronics has demonstrated a single digit ppm quality level for over a decade. Invotronics works in a build-to-print mode with complimentary engineering services and offers complete product design, engineering, validation, and production.</p>

PARTICIPATING CANADIAN COMPANIES

COMPANY	PROFILE
<p>LEMUR VEHICLE MONITORS www.lemurmonitors.com</p> 	<p>Lemur Vehicle Monitors designs, develops, manufactures and sells in-vehicle accessories. Lemur supplies technology solutions based on their wireless OBD2 communications platform. The company is a MFi approved manufacturer that can make products that work with Apple devices and can support automotive manufacturers present vehicle data on portable devices.</p>
<p>NSERC DIVA NETWORK www.nsercdiva.com</p> 	<p>NSERC DIVA Network focuses on the design of next generation intelligent vehicular networks and their applications. DIVA targets the development and integration of communication systems, vehicular technologies, and applications for enabling nationwide deployment of vehicular ad hoc networks (VANets) and intelligent transportation systems (ITS).</p>
<p>MAGNA POWERTRAIN INC. www.magnapowertrain.com</p> 	<p>Magna Powertrain is a premier supplier for the global automotive industry with full capabilities in powertrain design, development, testing and manufacturing. Offering complete system integration sets us apart from our competitors. Magna Powertrain's innovations make an important contribution to the overall performance of the vehicle while providing technologies that improve fuel economy, assist in making the vehicle safer, reduce weight and provide value to our customers. Modern and innovative manufacturing capabilities ensure quality and cost-efficient production.</p>
<p>MCMASTER UNIVERSITY - MACAUTO macauto.mcmaster.ca/ www.mcmaster.ca/research</p> 	<p>McMaster is a research-intensive university with a strong automotive and materials focus, featuring the Canadian Centre for Electron Microscopy, McMaster Manufacturing Research Institute, Metal Forming Laboratory and Steel Research Centre. McMaster is engaged in R&D partnerships in materials development and characterization, hybrid engine technology, corrosion, and software development. MacAUTO is the newly established coordinating body for automotive research and education at McMaster University. The University's numerous automotive-related research institutes and centres work with industry, government and academic partners in developing and commercializing new technologies and materials that will ensure the global competitiveness of Canada's auto industry. MacAUTO is also educating a new generation of professionals ideally suited to understanding real-world issues and implementing innovative solutions.</p>

PARTICIPATING CANADIAN COMPANIES

COMPANY	PROFILE
<p>THE NARMCO GROUP www.narmco.com</p> 	<p>The NARMCO Group is a group of 8 manufacturing companies that supply metal stampings, metallic sub-assemblies, coatings, roll forming, Class A stampings and assemblies, high strength steel stampings, difficult or deep draw stampings, powertrain components, and aluminum stampings. NARMCO also has 2 tool shops to help support and develop tooling and programs and 1 integrator which supplies fixtures and assembly equipment. They have alliances with global tool sources in China, Korea and Japan.</p>
<p>NEW-FORM TOOLS LTD. www.newformtools.com</p> 	<p>New-Form Tools is a manufacturing and automation company focused on steel tube manufacturing, steel tube cutting and automated work cells for the automotive tier suppliers to OEMs. The company provides tube cutting and forming solutions for automotive parts suppliers including hydro-form, exhaust and other steel tubing components. New-Form Charging provides design and build of various Electric Car charging stations for municipalities, business and other applications for revenue generation.</p>
<p>QNX SOFTWARE SYSTEMS LIMITED www.qnx.com</p> 	<p>QNX Software Systems Limited, a subsidiary of Research In Motion Limited (RIM), is a leader in middleware, development tools, operating-system software, and professional services for the embedded market. Companies such as Cisco, Daimler, General Electric, Lockheed Martin, and Siemens depend on QNX technology for vehicle telematics units, network routers, industrial control systems, medical instruments, security and defense systems, and other mission- or safety-critical applications. QNX Software Systems Limited is headquartered in Ottawa, Canada; its products are distributed in over 100 countries worldwide.</p>
<p>WATCAR www.watcar.uwaterloo.ca</p> 	<p>The University of Waterloo Centre for Automotive Research (WatCAR) conducts advanced automotive and transportation systems research to enhance innovation and competitiveness. More than 115 researchers, the largest university-based automotive activity in the country, undertake leading edge studies for industry partners around the world. Based in Canada's largest Faculty of Engineering, they conduct leading-edge research across all of Waterloo's six faculties including Mathematics (computer software), Science (electrochemistry and nano-materials), Environment (knowledge integration), Applied Health Sciences (kinesiology), and Arts (voice recognition).</p>