

AV&R CELEBRATES 25 YEARS TO THE PACE OF ROBOTICS AND INNOVATION IN AEROSPACE

Montreal, October 29th, 2019

November 4th, 1994 officially marks the debut of the group that will lead to the creation of the automation company AV&R. In 25 years, the small Quebec engineering company has grown to become the leader in the robotic surface finishing and automated surface inspection of aircraft engine parts worldwide.

Experts in their field

Originally a general automation company based in Montreal, Quebec, AV&R was born from the desire of its leaders to become world leaders and to be recognized as experts. Thanks to a developed knowledge of the aerospace industry and high level technologies meeting market expectations, AV&R specialized in the 2000s in surface finishing and inspection for gas turbine parts, such as blades. With the support of Quebec's investing partners such as Fondation and Fonds de solidarité FTQ, AV&R has designed robotic profiling, polishing, deburring and surface inspection systems that have helped aircraft engine manufacturers around the world achieve the technological demands of manufacturing their aircraft parts. AV&R's adaptive technology, which combines part analysis and process execution tailored to the specifics of each part, is why AV&R has built its reputation as a global expert. From North America, to Europe, to Asia, [AV&R systems now profile the majority of the blades of new aircraft engines in operation.](#)

A company that humanizes robotics

Since its creation, AV&R's ambition has been to put people at the heart of its actions. This vision translates into a desire to design automated systems that are easy to use, safe and easy to integrate into production plants. Through the design of software for the management of its robotic systems, AV&R has put in place [solutions allowing anyone to use robotics without prior knowledge of software programming](#), thus opening the way to the humanization of robotics.

Innovation first

Its multidisciplinary team of electrical, mechanical, and robotic engineers, programmers and vision experts has been working since day one to design innovative robotic systems that meet the expectations and requirements of the aerospace industry. Years later, after filing several patents, AV&R developed an unparalleled technological expertise. This constant desire to innovate continues to guide AV&R's actions. By continuing to invest in research and development, and with the support of several international partners, the company aims to offer ever more efficient robotic systems.

These [technologies will help manufacture more efficient aircraft engines that will have a positive environmental impact](#) by reducing fuel use.

AV&R's future innovations in robotics and vision will be varied and meet the needs of industry 4.0 and artificial intelligence trends. AV&R foresees its future in leading edge technology with the continual development of expertise in gas turbine blade pin blending to the design of systems combining automated visual inspection and repair of aircraft engine parts.

Proud of its 25 years of existence, AV&R is ready to innovate and develop even more in the years to come. This adventure has been, and will be, possible thanks to its long-standing partners and the ambition and ingenuity of its employees.

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Key Numbers:

- [325 systems](#) in operation worldwide
- Systems in [15 countries](#)
- [+80% of high-pressure compressor blades](#) currently manufactured are profiled by AV&R

About AV&R

An industrial automation leader for 25 years, AV&R is a Quebec robotic engineering company with more than 80 employees. It offers automation, vision and robotics solutions worldwide. Its activities are concentrated in the fields of aerospace and energy. AV&R designs high-tech robotic systems that have been developed specifically for gas turbine parts. Specifically, AV&R offers robotic finishing (profiling, polishing, deburring) and automated visual inspection systems to aircraft engine and energy turbine manufacturers.

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