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**Velatron Technologies  
(Formerly S.G. Smallwood Inc.)**



*The annual listing of 10 companies that are at the forefront of providing Power Electronics solutions and impacting the marketplace*



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# Velatron Technologies (Formerly S.G. Smallwood Inc.)

Delivering Excellence in Custom Magnetics with a Focus on Customer-Centricity

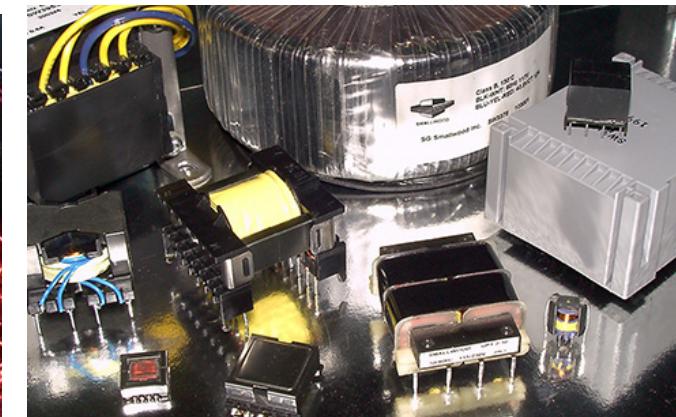
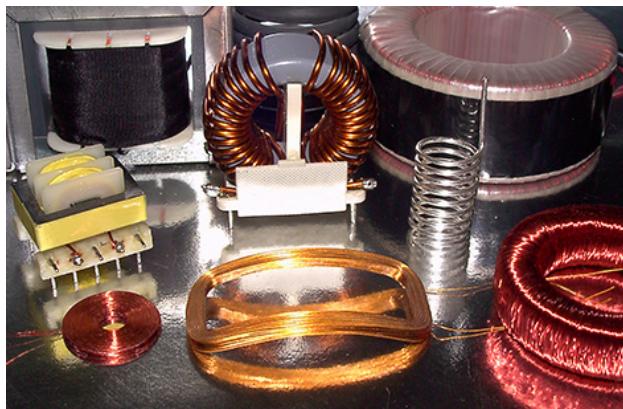


Piyush Kumar,  
P.Eng. President and CEO

**V**elatron Technologies, formerly known as S.G. Smallwood Inc. has been a leading force in the custom magnetics industry since it opened its doors in 1945. With roots planted in a customer-centric ethos, the company has evolved into a true powerhouse, leading in solving complex problems within the power electronics space. They have grown and adapted alongside the industry, gathering invaluable insights, and expanding their skill set in custom magnetics.

"At Velatron, we specialize in crafting custom magnetics solutions tailored to each client's specifications, reflecting our commitment to delivering excellence and superior customer service," says Piyush Kumar, President and CEO of Velatron Technologies.

As a designer and manufacturer of custom magnetics in various industries, including aerospace, the company thrives on addressing the distinct problems presented by its diverse clientele. It is these challenges that have shaped Velatron Technologies into the company it is today.



## Rebranding for Tomorrow: A Fusion of Legacy and Innovation

With AS9100D and ISO 9001, along with Control Goods Certifications (which meet the Canadian exemption with respect to ITAR in the US), Velatron Technologies is transitioning itself into a technology company. The rebrand reflects its focus on innovation, customer-centricity, and a bold new era in the custom magnetics industry.

As an aerospace facility, Velatron Technologies is dedicated to performing under the highest standards, actively engaging in new projects and technologies to shape the future of custom magnetics. With a clear mission, it aims to not only supply mission-critical components today but also meet the evolving needs in the custom magnetics industry for the future.

## Solving the Unsolvable

Velatron Technologies thrives on solving problems through extensive understanding, adaptation, and innovation. Specializing in unique and mission-critical applications, particularly in aerospace and defense, they serve low-volume, high-mix OEMs, acting as an essential solution provider for manufacturers.

They collaborate closely with clients, offering bespoke custom magnetics tailored to their specifications. In doing so, they leverage four primary capabilities, (i) Product Design, (ii) Reverse Engineering, (iii) Build-To-Print, and (iv) Wound Component Repair. This allows them to provide a wide range of services for custom magnetics.

Whether creating new designs from the ground up or optimizing existing components, Velatron Technologies consistently provides comprehensive solutions. Their highly trained engineering team ensures the seamless optimization of custom magnetic components and enhanced product performance. From manufacturing components based on client designs to refurbishing industrial machines facing solenoid or coil issues, their diverse capabilities broaden their industrial base, allowing them to work with customers of various fields.

## Leaving a Trail of Excellence Across Industries

Velatron Technologies has played a crucial role in significant ventures, from the Artemis program by NASA, set to reach the moon next year, to missions at the International Space Station for gravity experiments. Their products have also explored the deepest parts of the ocean including James Cameron's Mariana Trench Deepsea Challenger submersible vehicle.



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In a more recent venture, they tackled a challenge for a major marine and defense OEM, in designing a toroidal transformer which reduced the volume and weight by 15 percent and 6 percent respectively. They were also able to achieve a 35 percent improvement in thermal management, a 65 percent improvement in voltage accuracy, and a 6 percent improvement in voltage regulation. This accomplishment exemplifies the company's commitment to exceeding customer expectations.

As Velatron Technologies approaches its eight-decade milestone, the company stands at the forefront of the custom magnetics space, a testament to its enduring legacy and its mission to stay ahead of the curve. With an unparalleled understanding of their industry and a relentless focus on customer needs, Velatron Technologies is prepared to continue shaping the industry for years to come. MT