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FOR IMMEDIATE RELEASE

Amtech Electrocircuits Launches *First Article* to Deliver Practical AI Insights for Hardtech Manufacturers

New publication helps engineering teams separate AI hype from technologies that accelerate product development and manufacturing

TROY, MI — July 2026 — Amtech Electrocircuits, a leading provider of manufacturing solutions, has launched *First Article*, a new online resource dedicated to helping engineers, product developers, and manufacturers understand how AI can be applied to solve real-world hardware development and manufacturing challenges.

The publication is part of Amtech's broader AI in Hardtech initiative, which explores the intersection of AI, product development, and advanced electronics manufacturing. Drawing on the company's experience supporting complex, high-reliability electronic products from prototype through production, *First Article* will provide practical guidance on AI technologies that help engineering teams bring products to market faster while reducing risk and improving manufacturability.



The publication's name comes from one of manufacturing's most important milestones: First Article Inspection (FAI). In manufacturing, a first article is the first part produced from a new process that is carefully inspected against every engineering specification before production continues. Whether it is a printed circuit board, machined component, or molded part, the first article represents the point where design intent is validated against reality.

According to Amtech CEO Jay Patel, the concept perfectly captures the publication's mission. "First Article Inspection is where a design stops being an idea and becomes something tangible," said Patel. "It's the moment assumptions are replaced by measurable results. A validated first article tells you the design works, the process works, and the product is ready to move forward. Everything before that is development. Everything after that is value creation."

While many AI resources focus on automating routine office tasks, *First Article* will examine AI through the lens of engineering and manufacturing performance. Each article will evaluate technologies based on a straightforward question: Do they help engineering teams move from concept to a validated, producible product more quickly and with greater confidence?

Topics will include AI applications in electronics manufacturing, hardware development, product engineering, supply chain resilience, manufacturing automation, and emerging technologies that support the development of complex electronic systems. The publication complements Amtech's growing library of AI in Hardtech resources, which explore subjects ranging from AI hardware and edge computing to AI-powered product development and manufacturing workflows.

Patel said the publication also reflects another important principle: providing manufacturers with an objective evaluation before they commit valuable engineering time and investment.

“Every new technology promises to transform manufacturing,” Patel said. “Our goal is to provide that first honest assessment before companies invest their budget, engineering resources, or development cycles. We want readers to understand which technologies genuinely improve engineering workflows and which ones simply add complexity.”

As an electronics manufacturing services (EMS) provider supporting customers across demanding industries, Amtech believes AI will become an increasingly important part of product development, but only when it delivers measurable improvements in engineering efficiency, manufacturability, quality, and speed to market.

With *First Article*, the company aims to become a trusted resource for hardware innovators seeking practical insights rather than industry hype, helping engineering teams make informed decisions about the technologies shaping the future of hardtech manufacturing.

To learn more about *First Article* and Amtech’s AI in Hardtech initiative, visit www.buildamtech.com/ai-in-hardtech. For more information about Amtech Electrocircuits and its manufacturing capabilities, visit www.buildamtech.com.

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About Amtech Electrocircuits

Amtech Electrocircuits is a second-generation family-owned business at the forefront of the electronics manufacturing industry, specializing in the design and production of high-quality printed circuit boards (PCBs) and integrated circuits. With a commitment to innovation and excellence, Amtech focuses on being responsive to the needs of our customers, offering a reliable and robust set of agile resources designed for a high-mix environment. The company serves a diverse clientele across the industrial/commercial, medical device, automotive aftermarket, and general electronics sectors. Headquartered just outside of Detroit in the heart of America’s manufacturing community, Amtech is dedicated to pushing the boundaries of technology to deliver exceptional solutions that power the devices of tomorrow. For more information, please visit buildamtech.com.