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# Sigma Labs Demonstrates Proof of Concept for Closed Loop Quality Control During Metal Additive Manufacturing

SANTA FE, N.M., May 30, 2018 (GLOBE NEWSWIRE) -- Sigma Labs, Inc. (NASDAQ:SGLB) ("Sigma Labs" or the "Company"), a provider of quality assurance software under the PrintRite3D® brand, today announced that the Company has developed and demonstrated closed-loop feedback control of the metal laser powder bed fusion 3D printing process. Using Sigma's PrintRite3D® technology, the system operates by monitoring the process output and extracting process metrics. The process metrics are then compared to baseline metrics. The system then determines what process input parameter values need to be changed and implements those remedial changes in real time by signaling a change in the laser power in order to maintain the process under control.

Mark Cola, Chief Technology Officer of Sigma Labs, stated, "Automatic feedback process control was the next step in completing Sigma Labs' suite of sensing, monitoring, and control capabilities of metal additive manufacturing (AM) processes. Our addition of real-time process control clearly sets Sigma as the leader in AM process quality assurance."

Cola further stated, "By achieving this advanced understanding of quality variation and machine learning for metal AM machines that the *Factories of the Future* require, Sigma Labs has demonstrated that it is possible to bring the future to the present."

Sigma Labs has patents pending covering its closed loop control of melt pool quality during metal AM using its PrintRite3D® technology. Sigma is planning beta testing with select, end-user customers across various market segments.

## About Sigma Labs

Sigma Labs, Inc. is a provider of quality assurance software under the PrintRite3D® brand and a developer of advanced, in-process, non-destructive quality assurance software for commercial firms worldwide seeking productive solutions for advanced manufacturing. For more information please visit us at [www.sigmalabsinc.com](http://www.sigmalabsinc.com).

## Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended (which Sections were adopted as part of the Private Securities Litigation Reform Act of 1995). Statements preceded by, followed by or that otherwise include the words "believe," "anticipate," "estimate," "expect," "intend," "plan," "project," "prospects," "outlook," and similar words or expressions, or future or conditional verbs such

as “will,” “should,” “would,” “may,” and “could” are generally forward-looking in nature and not historical facts. These forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the Company's actual results, performance or achievements to be materially different from any anticipated results, performance or achievements. The Company disclaims any intention to, and undertakes no obligation to, revise any forward-looking statements, whether as a result of new information, a future event, or otherwise. For additional risks and uncertainties that could impact the Company's forward-looking statements, please see the Company's Annual Report on Form 10-K (including but not limited to the discussion under “Risk Factors” therein) filed with the SEC on April 17, 2018 and which may be viewed at <http://www.sec.gov>.

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