

# Surviving a Cyberattack

written by Lauri Moon | February 17, 2020

Every 39 seconds!

On average, there is a cyberattack every 39 seconds. That's 2,244 attacks a day. The effects of which can either bring a company down or bring them together to become stronger than ever.

Pilz was hit with a ransomware cyberattack on October 13, 2019. Pilz chose not to comply with the attacker's demands because doing so would have rewarded their efforts and financed additional attacks on others. More importantly, Pilz chose to stand strong to guarantee their data and the data of their customers wasn't further compromised, potentially leaving them vulnerable to future attacks.

Learn how Pilz not only survived the attack, but is coming back stronger than ever. Learn what you can do to help make your company stronger in any crisis.

Materials and examples presented on:

- The role of corporate culture
- Communication - who, what, when and why
- Gaining customer and supplier support
- Encouraging and fostering a creative atmosphere among employees
- Turning a negative into a positive

## Speaker



**Michael Beerman, CMSE® *Certified Machinery Safety Expert*  
CEO, Pilz Automation Safety, L.P.**

Michael Beerman has a Master's in Business Administration from Xavier University

and has been certified as a CMSE® - *Certified Machinery Safety Expert*, by TÜV Nord. Michael started his 18 year career at Pilz as a Sales Engineer and rose through the ranks to become the CEO nearly 10 years ago. Mr. Beerman is a contributing member of the ANSI B11 ASC and a voting member of the ASTM F24 Standards committee.

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# **Applying Machine Learning to Improve Build Quality of Laser-based Additive Manufacturing**

written by Lauri Moon | February 17, 2020

Join us for this webinar by the team led by Dr. Qian Wang, Professor of Mechanical Engineering, The Pennsylvania State University. This project is supported by a 2018

DCED Manufacturing PA Innovation Program Award.

Laser-based additive manufacturing (AM) processes involve a large number of process parameters that affect the final geometry, mechanical property, material microstructure, and surface roughness. Existing analytical models are often restricted by over-simplified assumptions and thus not suitable for real applications, whereas high-fidelity numerical models such as finite-element-analysis based models can be computationally expensive to be used in real-time build control.

This project proposes a machine learning approach to model the relationship between process parameters and the build geometry, by utilizing physics-based insights to define input features as well as modeling architecture. A suite of machine learning algorithms will be examined for their efficacy in model prediction. Simulated data generated from the Autodesk's Netfabb Local Simulation are mainly used for model training and testing, and experimental data will also be collected to further calibrate the model. Success of the project will help reduce the level of trial and error currently required in AM industry and thus help reduce the associated cost.

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# **Webinar: From Remote Monitoring to Predictive Analytics**

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Remote monitoring of assets is the proven first step for manufacturers like you to leverage the Internet of Things to increase your operational efficiency and improve profitability. Once connected, you can monitor how assets are performing in the field and can collect valuable data.

However, to take the next step and understand the significance of your data, it has to be transformed and turned into business intelligence.

Analytics makes it possible to gain insight into areas of your enterprise that were previously inaccessible. In this webcast, you will learn how to begin your analytics journey with remote monitoring and see how it can evolve with predictive analytics.

Join us to learn how IoT and analytics can help your business achieve:

- Significant increases in first time fix rates and customer uptime
- Faster repair times and lower service costs
- A solid foundation for your future predictive analytics strategy

**Speaker: Chris MacDonald, PTC**



## **Technical Details**

This webinar will be conducted using a slides-and-audio format. After you complete your registration, you will receive a confirmation email with details for joining the webinar.

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