

Can You Replace Machined Jigs with 3D Printed Parts?

written by Lauri Moon | October 7, 2019

Machining tooling in metal or plastic, either in-house or via a service bureau, can be a costly process. Depending on the forces experienced by the part, however, it may not always be necessary to machine these tools. Top tier manufacturers such as Ashley Furniture have turned to 3D printing parts in-house to replace custom tooling that was previously machined and outsourced.

In this webinar, we'll examine three case studies of how companies are printing strong, functional parts using a library of engineering materials and in-house 3D printing in order to dramatically cut costs and improve operational efficiency in production environments.

Register to learn:

- Which engineering material a manufacturer used to reduce costs by over 90% and achieve tolerances that fit their requirements.
- How Ashley Furniture improved efficiency by freeing up jig builders from repetitive tasks by using 3D printing to develop a universal system for an assembly fixture.
- 3 unique ways to use these learnings to improve operational efficiency and reduce costs at your workplace through desktop-based additive manufacturing.

Speakers

 **Andrew Edman, Manufacturing Industry Manager, Formlabs**

Andrew Edman is the Industry Manager for Product Design, Engineering, and Manufacturing at Formlabs. He's focused on using additive technologies to create value in manufacturing and industrial workflows, like using 3D-printed tooling to bridge from prototype to production. Prior to Formlabs, Andrew worked as a design and engineering consultant, helping startups and Fortune 500 companies develop

products from concept through to scale manufacturing.

 **Faris Sheikh, 3D Printing Specialist, Formlabs**

Faris Sheikh, 3D printing specialist at Formlabs, has helped Formlabs run over 40 live broadcasts around the world to educate over 21,000 engineers, manufacturers, dentists, and jewelers on how to successfully incorporate Formlabs products into their day-to-day workflows. Previously, Sheikh most notably ran an online technology show on hardware and software products totalling over 2 million global views.

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Updated Food Defense Plan Builder

written by Lauri Moon | October 7, 2019

The U.S. Food and Drug Administration (FDA) will hold a webinar to provide interested stakeholders with a brief demonstration of the updated Food Defense Plan Builder, which was released on September 19, 2019, and to answer questions about the tool.

The Intentional Adulteration (IA) rule under the FDA Food Safety Modernization Act

requires the food industry to implement risk-reducing strategies for processes in food facilities that are significantly vulnerable to intentional adulteration. Food facilities covered by the rule are required to develop and implement a food defense plan that identifies vulnerabilities and mitigation strategies. The Food Defense Plan Builder v. 2.0 aligns with the requirements in the IA rule and can be used to easily create food defense plans that support compliance with the rule.

Registration is required to attend the webinar. After registering for the webinar, you will be sent the webinar link as well as a pre-recorded Food Defense Plan Builder v. 2.0 demonstration video to view prior to the webinar.

Agenda

1. Welcome and Introductions

Janesia Robbs, Communication and Public Engagement Staff, CFSAN, FDA

2. Food Defense Plan Builder Demo

Julia Guenther, Policy Analyst, Food Defense and Emergency Coordination Staff, CFSAN, FDA

3. Questions

*Janesia Robbs, Communication and Public Engagement Staff, CFSAN, FDA
(Moderator)*

Additional Information

- Food Defense Plan Builder
- Protecting the Food Supply from Intentional Adulteration, Such as Acts of Terrorism
- Draft Guidance for Industry: Mitigation Strategies to Protect Food Against Intentional Adulteration
- FSMA Final Rule on Intentional Adulteration

Due to the overwhelming demand for the informational webinar they are close to reaching capacity, and may go over. If you are unable to log into the live event, please note that they will be making a recording available after the webinar.

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Mental Illness in the Workplace and How it Impacts the Safety of Your Employees

written by Lauri Moon | October 7, 2019

One fifth of adults will report having a mental illness in any given year. Almost three quarters of adults each report systems of stress, including headaches, feeling overwhelmed, burnout or anxiety. Employees' mental health issues impact businesses in several ways, including affecting the employees' job performance and communication with coworkers, among other things. These issues all impact employee safety, among various other issues. This webinar will discuss common mental health issues affecting employers and how employers can respond to them.

Topics included are:

- Mental health challenges faced by employers;
- The impact of the opioid crisis on employees' mental health;
- How these issues impact employee safety;
- Laws governing how employers can respond to mental health issues of employees; and
- Steps employers can take to manage mental health issues for employees.

Speaker

 **Travis Vance, Partner, Fisher Phillips**

Travis Vance is a partner in the firm's Charlotte office. He has tried matters across several industries and various subject matters, including employment litigation, business disputes and matters prosecuted by the Mine Safety and Health Administration (MSHA) and Occupational Safety and Health Administration (OSHA). Travis has emerged as a thought leader in the field of workplace safety. His writing

and interviews are followed closely by experts in the safety arena and have been featured in premiere publications such as *Business Insurance*, *EHS Today*, and the *Wall Street Journal*.

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Validation of Machine Safety Functions

written by Lauri Moon | October 7, 2019

With modern safety standards, utilizing terms such as SIL and Performance Levels, there are efforts in understanding how to perform proper calculations. An aspect that often is missed is the validation. Is validation done through design, testing or both? Join us for this informative webinar, where we will review some of the characteristics with validation in both design and physical testing of a safety system. Some examples will be provided with an overview of some of the validation principles. A discussion as to why validation is important and what can potential happen if an effective validation is not done.

Speaker

 **Mike DeRosier, Functional Safety Engineer, Machinery, Schmersal**

Mike DeRosier is a TUV certified Functional Safety Engineer for Machinery. His 20+ years of experience include controls engineering to design, build and integrate full machine control systems. His safety experience lead him to help corporations to develop Corporate Safety Standards, perform machine safeguarding risk assessments, machine safety training and design, as well as implementation of safety systems for all aspects of machinery (electrical, electronic, pneumatic, hydraulic, mechanical).

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Modern ERP Trends Manufacturers Can't Afford to Ignore

written by Lauri Moon | October 7, 2019

According to a 2019 Mint Jutras Enterprise Solution Survey of Manufacturers, 29%

are considering a new ERP system in the next 2 years, and 33% are undecided—meaning, they likely recognize the limitations of their current system but are unsure how to proceed. Do either of these groups sound like you? If not, are you ready to get left behind by your competition?

Manufacturers can't afford to keep "just making do" with systems that give them inaccurate data, delayed visibility into their operations and create extra work for their employees. Modern ERP systems are cloud-based and have advanced analytics and machine learning capabilities that can reduce your total cost of ownership and help streamline operations—reducing waste and maximizing profits.

Join Steve Reed, Vice President of Sales for Alithya's Microsoft practice, and Cindy Jutras, ERP analyst and owner of Mint Jutras, to discuss:

- How to know when it's time to replace your ERP
- What to look for in a new ERP
- Modern technology developments that can help you get a competitive advantage
- How to get a quick return on investment from your new ERP

Speakers

Steve Reed, Vice President of Sales, North America, Alithya

Steve is responsible for all direct sales efforts in North America. He has a broad range of experience helping application software companies successfully develop and bring manufacturing and enterprise solutions to market. Reed has held sales and marketing management roles with Alithya since 2001, and previously spent five years with Baan (now part of Infor) in channel operations positions. Prior to Alithya and Baan, he spent time with software-related companies in the financial and property management industries. In 2008, he was recognized by Microsoft as "Sales Manager of the Year" for Microsoft Dynamics resellers. Reed holds a Bachelor of Business Administration degree from Baylor University.

Cindy Jutras, President, Mint Jutras

Cindy Jutras is a widely recognized expert in analyzing the impact of enterprise applications on business performance. Utilizing 40 years of corporate experience and specific expertise in manufacturing, supply chain, customer service and business performance management, Cindy has spent the past 10+ years benchmarking the performance of software solutions in the context of the business benefits of technology.

Prior to founding Mint Jutras, Cindy was Vice President, Research Fellow and Group Director for the Aberdeen Group where she conducted survey-based research on ERP, suite-based enterprise applications and business performance management. During her tenure with Aberdeen she directly managed a variety of research practices including Enterprise Applications and ERP, Manufacturing, Product Innovation and Engineering, GRC and Financial Management, Strategic Service Management and Human Capital Management. In addition, she played a leadership role in developing Aberdeen research staff, methodologies and best practices.



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Key Trends in Digital

Manufacturing You Need to Know

written by Lauri Moon | October 7, 2019

Whatever industry you're in, it's impossible to avoid Industry 4.0 and the barrage of buzzwords that accompany it. Digital Twins, artificial intelligence (AI), machine learning, predictive maintenance, and cybersecurity - there are enough new tools and technologies coming onto the market to make a manufacturer's head spin. But whilst these technologies are new to many manufacturers, the market is moving quickly, and there are already plenty of leading industrial companies that are seeing the benefits of their digital transformation activities at sustained speed and scale.

GE Digital Director of Product Management, Joe Gerstl and GrayMatter Co-founder & Vice President of Manufacturing, Carson Drake will help you cut through the noise and discuss the key breakthroughs and trends in digital manufacturing. One of these notable trends is the shift of viewing manufacturers as technology companies.

By joining this webinar you'll learn how leading manufacturers have embraced technologies to:

- Move from silo'd systems to technologies that offer context
- Shift from analyzing the past to predicting the future
- Develop new competitive advantages by creating centers of innovation

Speakers

 **Joe Gerstl, Director of Product Management, GE Digital**

Joe Gerstl is the Director of Product Management for GE Digital's Plant Applications MES software. He has worked in the software industry and in manufacturing for over 30 years spending time in various roles including engineering, sales and product management while working at leading companies such as Microsoft and now GE Digital.

 **Carson Drake, Co-founder & Vice President of Manufacturing, GrayMatter**

Carson Drake is the Vice President of Manufacturing Industries for GrayMatter. A seasoned MES and Manufacturing Intelligence expert, Carson Drake has been combining automation best practices with emerging technology to solve complex business problems for over 25 years. After graduating with honors from Fairmont State University in West Virginia, Carson quickly gained valuable plant-floor knowledge in the manufacturing marketplace; working at Modicon with motion, PLC and HMI technology across the United States in assembly plants, packaging plants and in a variety of industries. Carson is tasked with handling our key manufacturing accounts directly as well as directing our overall manufacturing team.



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OSHA Inspections: Understanding Your Rights & Navigating the Process to Minimize Your Citation Risk

written by Lauri Moon | October 7, 2019

Every employer dreads a knock on the door from an OSHA inspector. But an

inspection doesn't need to be your worst nightmare. If you take proactive steps to find and fix hazards, develop a detailed plan for handling an inspection, understand and exercise your rights, and operate in good faith throughout the process, you can significantly reduce your chances of damaging citations and fines.

While OSHA and its state counterparts cannot inspect every facility, that doesn't mean you can afford to be complacent about the risk of an inspection. The facilities that receive visits from OSHA are far from random, and the combination of your industry, your history of violations, and your injury and illness rates can significantly raise your inspection risk. With a single willful or repeat violation now carrying a maximum penalty of \$132,598, being unprepared for an OSHA inspection can be more costly than ever.

Join us for an informative webinar on October 10 that will provide guidance on planning for an OSHA inspection, navigating the inspection process, and proactively managing safety compliance to reduce your chances of citations and fines.

You'll learn:

- The factors that can increase your risk of an inspection—and what you can do to influence them for the better
- The enforcement impact of OSHA's Site-Specific Targeting Program
- Your rights—and your employees' rights—during an OSHA inspection
- Who should be present during an OSHA inspection and what their roles are
- How to strike the right balance between providing requested information and protecting your interests
- Tips for navigating the process from opening to closing conference and beyond
- And much more!

Speaker

 **Emily Scace, Senior Content Specialist, Safety, BLR**

Emily Scace is a Senior Content Specialist for BLR's safety publications. She writes and edits detailed regulatory analysis, newsletters, training content, special reports,

white papers, news articles, and other materials to help businesses understand and follow OSHA and DOT compliance obligations. Emily also researches and writes about occupational safety and health regulations, enforcement trends, safety-related best practices, and safety culture; delivers webinars and presentations on a variety of workplace safety topics; and more.

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

written by Lauri Moon | October 7, 2019

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.

Change Your Safety Culture by Making Employees a Part of Safety Strategy

written by Lauri Moon | October 7, 2019

For excellence in any operational category to be recognized, it is imperative employees make decisions and behave in alignment with the intended strategic direction. Strategy is a framework of choices an organization makes to determine how to capture and deliver sustainable value. How value focused are your efforts, and do the customers of your safety strategy agree with this?

Hear Terry Mathis, the founder and CEO of ProAct Safety, an international safety and performance excellence firm, explain why safety is not a standalone strategy

within a business; it must be an integral part of the overall operational plan. How clear is your strategic direction? How well can employees easily see the role safety plays within it? How were employees involved in the creation and execution of your plan? W. Edwards Deming taught, “People support what they help to create.”

Employees must be able to see themselves as actors within the safety strategy. For buy-in, ownership and discretionary participation, employees must play a role in identifying where you are going, what it will look like when you get there, where you are now, what choices are made to close the gap, their role and responsibilities, how progress will be measured, and confidence that the strategy is creating sustainable value.

Ray Kanani, Senior Director of Product Strategy at InteleX, and Scott Gerard PCC, PCM, PCG, VP of Environmental, Health & Safety at Moss, will offer specific examples that highlight the importance of employee buy-in and engagement when it comes to the design and implementation level of an EHSQ software solution, as well as the important post-implementation phase and the successful adoption of engagement tools and the impact the adoption of these tools has had on the safety strategy at Moss.

Takeaways:

- Learn how high-performing and highly reliable organizations are creating and executing on their unique strategy for excellence in safety culture and performance.
- Learn how to self-assess the efficacy of your current strategy and find opportunities for continuous improvement
- Identify what data are necessary to inform and answer the ten questions necessary to create a value-focused safety strategy
- Review a methodology that has guided hundreds of organizations in the creation of their effective strategy and execution plan
- Discover what motivates and demotivates employee involvement in the pursuit of safety excellence
- Learn how to identify the 5 types of people in organizational change

Speakers

Terry Mathis, CEO, ProAct Safety

Terry L. Mathis, CEO, ProAct Safety, Inc. is the founder and CEO of ProAct Safety, an international safety and performance excellence firm. He is known for his dynamic presentations and writing in the fields of behavioral and cultural safety, leadership, and operational performance, and is a regular speaker at ASSE, NSC, and numerous company and industry conferences. He is a veteran of over 1600 safety, culture and performance improvement engagements in 39 countries, and has personally assisted organizations such as Georgia-Pacific, Williams Gas Pipeline, US Pipeline, Herman Miller, AstraZeneca, Wrigley, ALCOA, Merck, Rockwell Automation, AMCOL International, Ingersoll-Rand, The United States Armed Forces and many others to achieve excellence.

Ray Kanani, Senior Director of Product Strategy, Intelx

Ray Kanani is Senior Director of Product Management for Intelx Technologies ULC. He leads a team of researchers, designers and product managers to grow and maintain a \$100MM+ ARR product portfolio and works alongside EHSQ subject-matter experts and key stakeholders to publish, promote and monitor a strategic product roadmap that aligns business units and supports growth. He actively supports and stays close to customer and prospect relationships across AMER, EMEA and APAC regions.

Scott Gerard PCC, PCM, PCG, VP of Environmental, Health & Safety, Moss

Scott Gerard, PCC, PCM, PCG, is Vice President of Environmental, Health & Safety at Moss, a leader in the construction business in America, building residential, educational, correctional, public assembly and military projects, with a specialization in solar construction. With offices that extend from Florida to Hawaii, the family-owned company has been recognized by the Occupational Safety and Health Administration (OSHA) as an elite construction company within the agency's Safety Recognition Program. Moss specializes in creating work environments that are safe, secure and supportive.

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Managing Common Hearing Conservation Concerns

written by Lauri Moon | October 7, 2019

Federal regulations require employers to operate an effective hearing conservation program (HCP) for people working in hazardous noise. However, even with specific rules and recommendations to guide them, employers may struggle to be pro-active and able to prevent occurrences of noise-induced hearing loss. This webinar will address some common reasons for HCP ineffectiveness and offer tools and recommendations for improving the management of HCPs. This webinar is designed for all persons who play a role in delivering hearing loss prevention services in the workplace.

Speaker

 **Lauraine ("Laurie") Wells, Au.D., Doctor of Audiology | Senior Regulatory Affairs Specialist, 3M Personal Safety Division**

Laurie Wells, Au.D., is a Doctor of Audiology and Senior Regulatory Affairs Specialist for 3M Personal Safety Division, where she works with hearing protection and hearing conservation program regulatory issues globally. Her responsibilities include supporting evidenced-based standards development and providing subject matter expertise related to hearing loss prevention. Dr. Wells has been a long-time co-presenter for the highly regarded 3M Hearing Loss Prevention Seminars, a series of non-commercial educational programs on hearing loss prevention topics. Here she has become known for interactive training techniques towards motivating people to protect their hearing. Before coming to 3M, Dr. Wells worked for a consulting firm, Associates In Acoustics, Inc., where as Manager of Audiology, she provided professional audiology review of hearing loss cases, audiometric database analysis, assessment of hearing protection devices, audits of hearing conservation programs and conducted employee noise exposure assessment, audiometric testing and employee education. The experience of directly interacting with workers at their jobsites as well as consulting with corporate level health and safety professionals has allowed her to integrate real-world issues with policy making in an effort to better shape effective preventive practices. Dr. Wells is the Immediate Past-Chair of the Council for Accreditation in Occupational Hearing Conservation (CAOHC), representing the American Academy of Audiology and a Past-President of the National Hearing Conservation Association.

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