

NEW Manufacturing Alliance
INDUSTRY 4.0 TASK FORCE – WEBEX MEETING MINUTES
Thursday, September 23, 2021 – 1:30 to 2:30 PM

ATTENDEES: Adonica Randall-Abaxent, Amy Kox-NWTC, Ann Franz-NEWMA, Brian Schauf-Schreiber, Dan Heiser-SNC, Debbie Thompson-NWTC, Greg VandenLangenberg-Amcor, Jake Manches-MTU, Jill Thiede-NWTC, Jim Broennimann-GSC, Jordyn Roe-Belmark, Mark McDonald, Matt Wolak-GSC, Scott Valitchka-15 Dots, Steve Straub-FVTC, Tim Heyrman-KI, Uli Unterriker-Optima Machinery Corp., Zach Kaiser-McClone

GSC PRESENTATION - 3D PRINTING & ADDITIVE ENGINEERING PRESENTATION

Presenter: Matt Wolak

For over 30 years, GSC has been a trusted resource for 3D engineering solutions and services. They have assisted many companies in implementing 3D tools for design, simulation, data management, electrical engineering, technical documentation, and 3D printing. 3D printing allows for parts to be created quickly. GSC can help your company with its industry 4.0 plans. GSC changes processes, not just the industry 4.0 mindset.

| INDUSTRY 4.0 TECHNOLOGIES TRANSFORMING INDUSTRIAL PRODUCTION | | |
|---|---|---|
| Autonomous Robots Simulation Horizontal & Vertical System Integration | The Industrial Internet of Things Cybersecurity The Cloud | Additive Manufacturing Augmented Reality Big Data & Analytics |

Industry 4.0 can be overwhelming. GSC helps companies navigate the process by:

- Ongoing automation of traditional manufacturing and industrial practices, using modern smart technology.
- Using machine to machine communication and the Internet of Things.
- Integrating the two to increase automation, improve communication, self-monitoring, and to produce smart machines that can analyze and diagnose issues without the need for human intervention.

How does your company prioritize the following?

- Reduce manufacturing costs
- Faster time to market
- Improve manufacturing and supply chain efficiency

3D printing providers Markforged and HP allow your organization to unleash new growth and scale production with advanced plastics and metal solutions. Both companies offer reliable material for every stage of the production cycle. Markforged pioneered fiber reinforcement in 3D printing. The impact on the strength and durability of 3D printed parts is substantial. Markforged also created Blacksmith, an adaptive manufacturing platform that connects part design, production, and inspection with a powerful AI that includes autocorrecting.

The following are the top five business problems Matt sees and works to solve every day.

- Trouble finding talent (rookie and veteran) for highly skilled, expensive labor for fixturing and tooling
- Supply chain disruption – vendor dependency | COVID resulted in supply chain disruption for everyone.
- Wasted time and money
- Your competition – falling behind the innovation curve compared to your competition
- Risk – Unplanned downtime due to dated equipment, tooling and machine breakage, replacement part lead times and re-work

Each of the colleges / universities are offering labs, classes, certificates and/or degrees that incorporate 3D printing. Members are welcome to contact any of them directly for 3D printing student projects or possibly other research interests.

- Jake Manches, MTU | jmanches@mtu.edu
- Jill Thiede, NWTC | jill.thiede@nwtc.edu, 920-498-5663
- Steve Straub, FVTC | straub@fvtc.edu, 920-735-5717

DATA ANALYTICS COURSE – BRIAN SCHAUF

82 people are registered for the next data analytics cohort that begins on 9/21. The course will be offered again in January 2022.

INDUSTRY 4.0 STUDY – ANN FRANZ

The survey link will be sent to manufacturer members within the next week. Current and future technology needs, skills and talents for northeast Wisconsin manufacturers are studied. Results help create new career and educational pathways, while allowing for comparisons. Survey results will be shared at the December quarterly membership meeting. **Manufacturers are encouraged to complete the survey.**

CYBERSECURITY TRAINING NEEDS

There is opportunity for the Alliance to offer structured cybersecurity courses, similar to the data analytics LinkedIn Learning training. Cybersecurity is one of the hottest topics of our times.

Zach Kaiser, McClone, shared that ransomware and cybertheft are some of the most common claims he sees. Often, there is a lot of push to the IT department; however, the number one cause of claims is human error. All employees need to be involved so they understand the human element. Zach recommended <https://www.wizer-training.com/>, as a free resource that can be sent to employees via email and is automated for organizations that don't have anything in place. The top things a carrier asks for is multifactor identification, segmented data, and employee training. It is difficult to get coverage without these items in place. **Members are encouraged to contact Zach Kaiser if they are interested in learning more about their free or more in-depth paid cybersecurity service.**

Industry 4.0 Task Force members would like to have cybersecurity as a topic of discussion every 4th meeting.

Thoughts shared regarding cybersecurity training:

- Scott Valitchka: I would be interested in demonstration and assessment as a start to identify opportunities and risks. Tiered options for learning and risk assessments could be offered.
- Dan Fuhrmann: Does training mean academic programs or professional certifications, or both?
- Ulrich Unterriker: In our case, employee training would be of interest – raise awareness of links, malware.
- A train the trainer could be offered, demonstrating how to go through assessment tools.
- **Members can contact Adonica Randall if they would like to review Abaxent's risk assessment and evaluation contents. She can share outcomes, as there are many risks.**

Members are encouraged to contact Ann if they would like her to setup cybersecurity LinkedIn Learning training or setup a smaller group that would determine what this training should look like going forward.

UPCOMING ALLIANCE EVENTS

October 1 – Manufacturing First Virtual Kickoff Event for Manufacturing Month – *Employee attraction and retention strategies will be discussed. Virtual networking will be available after the panel discussion.*

October 5 – Get Real Math / Science Premiere at the Meyer Theatre

October 20 – Taps + Tours Business After Hours at Elevate97

October 26 – Excellence Awards Dinner at the KI Convention Center

October 27 – Manufacturing First Expo & Conference at the KI Convention Center

November 4 – Internship Draft Day

NEXT MEETING

The next Industry 4.0 Task Force meeting will be via Webex on November 18, 2021, 1:30 p.m. Agenda:

- ✓ Welcome & Updates
- ✓ Initiatives: Supply Chain Constraints & Service Tech Remote Troubleshooting Enhancements
- ✓ Upcoming Alliance Events
- ✓ Next Meeting Date/Time/Agenda