

NEW Manufacturing Alliance
INDUSTRY 4.0 TASK FORCE – WEBEX MEETING MINUTES
Thursday, July 23, 2020 – 1:30 to 3:00 PM

ATTENDEES: Alex Gibson-Saggezza, Adonica Randall-Abaxent LLC, Amy Kox-NWTC, Ann Franz-NEWMA, Arthur Ebbinger-ACP CreativIT/CCCP, Chris Lipski-Vantage/Abaxent, Dan Fuhrmann-MI Tech, Dan Heiser-St. Norbert College, David Downey-KI, Debbie Thompson-NWTC, Jake Manches-Michigan Tech, James Corpus-Pierce Manufacturing, Jeff Blackman-Oshkosh Corp., Jill Thiede-NWTC, Joe Brittnacher-Ariens Co., Joe Vehec-PNC Bank, Joel Warren-Rockwell Automation, John Irwin-Michigan Tech, John Kan-Braas Company, Matt Merrick-Jacobs, Nate Paul-Suburban Electric, Paul Link-Alliance LS, Scott Herron-New Resources Consulting, Stewart Larsen-CCCP, Tim Duley-Alliance LS, Tim Heyrman-KI, Todd McLees-Pendio, Tony Olson-Excelion Partners

UPDATES: PAINT COHORT & MICHIGAN TECH

The Paint Cohort for Advanced Analytics will be having its first meeting on July 27, 2020 at Ariens Co. Collaboration with Michigan Tech has been put on hold until their fall classes begin.

IOT IN MANUFACTURING – FACTORY FLOOR PERSPECTIVE

John Kan, Connectivity Manager, Braas Company

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Email John for further information or a copy of the presentation. Topics covered:

- The growth of data on the factory floor
- Different mediums allowing more data
- The IT world meets the OT world
- Layers are used to explain and differentiate
- The best way to get a grasp is to view various architectures from a 30,000 ft. view
- Connecting assets all over the world

John discussed how data points: Temperatures, Cycle Times, Alarm States, etc. have always been on the factory floor. The opportunity is that now this data is available to many different locations including “The Cloud”. In between, there is an infrastructure that is needed to handle legacy and modern devices – in classic intersection of IT and OT. Ethernet switching plays a more critical role as more devices are connected, as does cellular for outdoor applications. The good news is that it is not necessary to integrate everything all at once. Pilot programs can be implemented and gradually scaled as economically feasible.

CONVERTING IT SECURITY INTO ORGANIZATIONAL RISK

Adonica Randall, Abaxent LLC - Email Adonica for a copy of the presentation.

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Chris Lipski, Vantage Financial

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Contact the presenters for more information.

Technology is constantly changing. Flexibility is important to adapt to a new normal and threats. Most manufacturers, especially small and medium-sized businesses, are concerned about suffering a major data breach and have seen an enormous rise in cyberattacks. It is no longer good enough to have security devices. You need to build a culture of security.

A cogent IT security strategy is necessary in tying in a general reference to strategic ways to finance security (and other necessary projects). Cap ex preservation is at a paramount given the uncertainty of the current economic climate, and the ability to pivot is vital given the ever evolving threats that cybersecurity will present (along with the never ending progression of technology). Adonica also discussed their work on the Fiserv Arena.

ASSESSING MONTHLY CLOUD OPERATING COSTS & WHAT ELSE NEEDS TO BE CONSIDERED WHEN MOVING SERVICES & SYSTEMS TO THE CLOUD (i.e. Security, Redundancy, Management, Maintenance)

Contact the Camera Corner Connecting Point presenters for more information.

Arthur Ebbinger, arthur.ebbinger@cccp.com - Phone (920) 617-3448

Stewart Larsen, stewart.larsen@cccp.com – Phone (920) 438-0361

- Migration & Deployment Considerations
- Cost Management
- Industry Benefits

With its many components, considerations and built-in monitoring, Cloud computing offers your business many benefits. Huge benefits are being seen by manufacturers who move into the Cloud model. Almost any company can benefit by using the Cloud. The quality of your internet connection is an important consideration. With the growing number of web-enabled devices used in business, the Cloud's access to data is made easier. Cloud computing allows users to work from anywhere. Collaboration in a cloud environment gives your business the ability to communicate and share more easily. Training must be in place. Cloud computing offers many benefits including; reliability, speed, security, productivity, performance and cost effectiveness.

CERTIFICATIONS FOR DATA & BUSINESS ANALYTICS – MICROSOFT

Microsoft is launching a global skills initiative, bringing digital skills to 25 million people worldwide by the end of 2020.

See attachment. Ten careers were identified as having the greatest number of job openings, have had steady growth over the past four years, pay a livable wage, and require skills that can be learned online. One of the careers identified is Data Analyst.

Data analytics skills are increasingly needed. The Alliance is working with Microsoft on a pilot for member employees interested in taking the Data Analyst certificate program at no charge. Seven modules, approximately 24 hours of online training, are required. There is an exam that participants will need to score a 70% or better to earn the certificate. Some employees may need additional course(s) if they are a beginner in Excel. There is a cost associated with the training, but this will be paid via NEWMA's grant from Microsoft. Ideally, companies should allow employees to take the training during their work hours.

Ann will be sending an email to the membership to recruit 1-2 participants from each company to participate in the Data Analyst certificate cohort.

NEXT MEETING DATE/TIME/LOCATION

The next Industry 4.0 WebEx meeting is on Thursday, August 20, 2020, 1:30 to 3:00 p.m. Members are encouraged to contact Ann if they would like to share a case study at the meeting.