

**NEW Manufacturing Alliance**  
**INDUSTRY 4.0 TASK FORCE**  
Thursday, April 28 – 1:30 to 3:30 PM  
Northeast Wisconsin Technical College  
*Notes*

**WELCOME BY DR. RAFN WITH NORTHEAST WISCONSIN TECHNICAL COLLEGE**

**TOPIC 1: DATA ANALYTICS & PROJECT MANAGEMENT TRAINING UPDATE**

The 5<sup>th</sup> cohort of the data analytics training finished in March. In total, there have been over 200 Alliance member employees that have completed the course. April 25<sup>th</sup> kicked off the first ever project management training, which had over 200 Alliance members register for the 2 cohorts offered this spring. This training will be similar format with LinkedIn Learning, weekly content experts and a capstone project. Both the data analytics and project management course will be offered in the summer and/or fall.

**TOPIC 2: MAY 20<sup>TH</sup> INDUSTRY 4.0 TOURS & DIALOGUE**

An invite to the May 20<sup>th</sup> NEWMA Industry 4.0 Tours & Dialogue was sent out last week to colleges throughout Wisconsin and Michigan. The companies offering tours include: Alliance Laundry Systems, CMD Corp., EMT International, Georgia-Pacific, Green Bay Packaging, Lindquist Machine, PCMC, Sargento Foods and Walker Forge. Only college faculty and staff are permitted to go on the plant tours, due to limited number of spots. There are so far over 40 faculty members registered for the event coming from colleges: UW Platteville, UW Green Bay, UW Milwaukee, St. Norbert College, Northeast Technical College, Lakeshore Technical College and Fox Valley Technical College. The companies besides offering a tour will be offering the attendees lunch.

Everyone will then go to Lambeau Field on the 4<sup>th</sup> floor with arrival by 1 p.m. Taskforce members are encouraged to attend the program from 1 p.m. – 3 p.m., which will include an overview of the 2021 Industry 4.0 study results and roundtable discussion. Questions:

1. What did you learn on your plant tour that you didn't know before and how could you use this new learning in your classes and/or how you work with students?
2. What things stand out in the 2021 Industry 4.0 study results and what are some takeaways that you will bring back to the college and your classes?
3. What are some new opportunities for industry and higher education to partner more in the future?

Please RSVP to Ann if you are planning on attending the May 20<sup>th</sup> Roundtable discussion.

**TOPIC 3: AR/VR PROJECT**

Kick off for AR/VR program was given by Jill Thiede, associate dean with Northeast Wisconsin Technical College (NWTC). NWTC shared that they are investing over a million dollars into its Industry 4.0 technology and infrastructure. It is in current pilots in VR (Ovation Public Speaking), Z Space for Automotive, HaloLens AR for Civil/Archi/Mech Design, and MS Dynamics 365 Guides.

There were 3 presentations:

**EMT International – Remote Assist Technology – Augmented Reality**

- Goal is less downtime for customers.
- Partnered with NWTC utilizing MS Halo Lens, MS Dynamics, MS Teams and MS Dynamics 365 Guides
- VR technology – live 2 way videos, MS Teams and MS Remote Assistance.
- AR technology – documents, drawings and models.
- Live senior service technician at the home office supporting the devices.

- Results: faster troubleshooting, The company hired 3 new service techs that were able to get out in the field faster, due to using the AR/VR equipment and having support from a senior technician at the company.
- Key takeaway – it is important to have everyone use the equipment early on to get buy-in.

### **PCMC and Rockwell Automation**

Utilizing Halo lens and Vuforia.

PCMC's senior service technicians triage calls at the company.

Vuforia is a remote collaboration with AR. It can provide expert guidance, work instructions, animations, and live data.

No code is needed to learn to use the system.

Results – found the platform easy to learn, it only took an experienced technician 2 days to master the program.

### **Transfr VR – Ryan Leonhardt - Virtual Reality Skill Building**

The software help people explore careers in the skilled trades. The company started by working with the state of Alabama and Lockheed Martin. The challenge was to train workers in measurement skills. There are now 20 simulations of measurements. In addition, there are 23 different occupations featured covering over 200 job skills. There are also simulations in safety, like lock out, tag out. Most modules run 12 – 30 minutes, however the company is creating shorter content that will run 6-8 minutes. The software can use any VR hardware.

### **NEXT MEETING**

- ✓ The Industry 4.0 taskforce meeting for May will be the **May 20<sup>th</sup> Industry 4.0 Tours & Dialogue** meeting at Lambeau Field.
- ✓ There will be one summer Industry 4.0 meeting that will be held in August that will be a 2 day tour of the Connected Systems Institute at UW Milwaukee and tour of MxD & Microsoft in Chicago.  
**Dates could be either August 9<sup>th</sup> – 10<sup>th</sup> or August 23<sup>rd</sup> – 24<sup>th</sup>. Members are asked to share their preference with Ann.**