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Mechatronics

Integrating Mechanical Devices & Electronics Within Your Plant

Thursday June 8 2023

Time:
8 AM to 4 PM

Location:
Agilix Solutions
7979 N Brother Blvd.
Bartlett, TN 38133

Who should attend:
Control Engineers
Design Engineers
Maintenance Managers
Engineering Managers
Automation Managers

OVERVIEW:

Mechatronics, the convergence of mechanical devices and electronics, is the very essence of Industry 4.0 and the future of manufacturing. At its core is the creation of simpler, smarter systems which are essential for the expected growth in automation and manufacturing. Please join us as we discuss how to better combine mechanical, electrical, and electronic automation into your production systems while improving overall equipment effectiveness (OEE) with the latest Mechatronics products from Rockwell Automation and our other partners.

AGENDA:

- Check-in & Breakfast: 8:00 AM
- Presentations: 8:30 – 11:30 AM
- Lunch: 11:30 – 12:15 PM
- Presentations: 12:15 – 4:00 PM

WHY SHOULD YOU ATTEND:

- Understand how to better integrate the electrical and mechanical aspects of your production system.
- Learn how to reduce machine design time and commissioning risk in your industrial automation investments.
- Get a look at the newest mechatronics technologies and learn where to apply them.

RSVP: Register online at goAgilix.com/training-events.

If you have questions about the event, please contact Drew Hicks at dhicks@goAgilix.com or 901-498-5358.

Presenters & Exhibitors:

Kyntronics · Rockwell Automation · R+W A POPPE + POTTHOFF COMPANY · STOBER · Tolomatic EXCELLENCE IN MOTION

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PRESENTATION DESCRIPTIONS:

Motion Control - Achieve More with Smarter, More Flexible Machines

Are you looking to reach value faster while becoming better integrated and more flexible? Learn how to best utilize Rockwell Automation's motion control portfolio – including Kinetix and Armor Kinetix -- to help you create the capable, scalable and connected machines that drive your business forward. With the global reach of Rockwell Automation, you can be sure that your devices are supported and serviceable across your entire enterprise.

Advantages of Servo Gearing

Only about one-third of motor-driven motion applications take advantage of servo gearing. Learn how to implement servo gearing to help with size-restrained applications, increase torque and reduce speed while maximizing cost savings. In addition, we will discuss how all-in-one gearmotors can be utilized to further save space while eliminating components and providing added stiffness and precision to your application.

How Can Independent Cart Technology (ICT) Help You?

Independent cart technology is a new approach to linear motors. Instead of the traditional gears, chains and belts, ICT uses magnets to precisely control motion with frictionless propulsion. Learn how ICT increases machine productivity, flexibility and sustainability. We will highlight key applications for utilizing this technology and use cases showing its benefits.

Electro-Hydraulic Actuators – Fusing Power & Precision

Electro-hydraulic actuators combine the best features of hydraulic power with the precision of servo control and can be used in a variety of applications. Learn how electro-hydraulic actuators allow for IoT interface functions such as predicative maintenance and Overall Equipment Effectiveness (OEE) monitoring.

Unified Robotic Control

As production demands continue to rise, manufacturers must be prepared for the needs of tomorrow with capable, flexible solutions today. You will learn how, utilizing Logix control, integrating robots into your production systems can simplify the path to more connected, intelligent deployments. And with seamless connection to the latest digital tools, it is easier than ever to create efficiency and drive innovation never before possible.

Linear Motion Solutions to Maximize Uptime & Reduce Operational Costs

Hydraulic cylinders have been widely used in automation equipment for decades, but advancements with electric rod actuators have spurred debate over which technology offers the best solution. We will review a variety of factors affecting each technology's performance and cost: motion control capabilities; system components and footprint; force and speed capabilities; temperature; device life/maintenance; data collection; efficiency/utility costs; leaks/environmental concerns; and more. We will also cover how to most efficiently size actuators.

Reduce the Couplings Backlash for Highly Accurate Positioning

High performance motion systems can place challenging demands on connecting elements like shaft couplings. Among other things, they must withstand dynamic motion and large drive torque variations while precisely transferring rotation. We will cover how to employ low or zero backlash couplings where little to no backlash can be tolerated. And discuss how to prevent damage and downtime using safety couplings to protect against excessive torque spikes.

Want to learn more about Mechatronics?
Check out our recent blog article.

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