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Positioning Equipment for Automated Fiber Optics Device Manufacturing: Practical Ways to Solve Challenging Problems

Wednesday, April 22, 2020 1:00 PM - 2:00 PM EDT

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Presented by



About This Webinar

As fiber optics device manufacturing processes mature, the use of automated alignment, probing, and packaging equipment will become widespread. These automated technologies will greatly enhance the precision of optical assemblies while reducing production costs as volumes increase. However, selecting and implementing the right positioning subsystem within your manufacturing process is critical to meeting your machine's performance expectations.

Presenter RJ Hardt, who has nearly a decade of experience solving challenging precision motion control and automation challenges for the optics and photonics industry, will explain the steps to take to optimize the performance of automated positioning systems in the most difficult fiber optics manufacturing processes. Hardt will address:

- Which motion control technologies to apply to achieve submicron alignment tolerances.
- The use of motion kinematics to account for component coordinate offsets pre-alignment.
- The use of precision position equipment to optimize optical power when facing difficult boundary conditions.

He will show attendees how to practically implement solutions related to motion control mechanical design, algorithm development, and complex kinematics. These solutions will alleviate common fiber optics manufacturing challenges, including:

- How to achieve the position resolution required to meet the alignment tolerances of the device being assembled.
- How to attain the precision motion repeatability and durability that is needed to sustain high-volume manufacturing environments.

About the presenter:

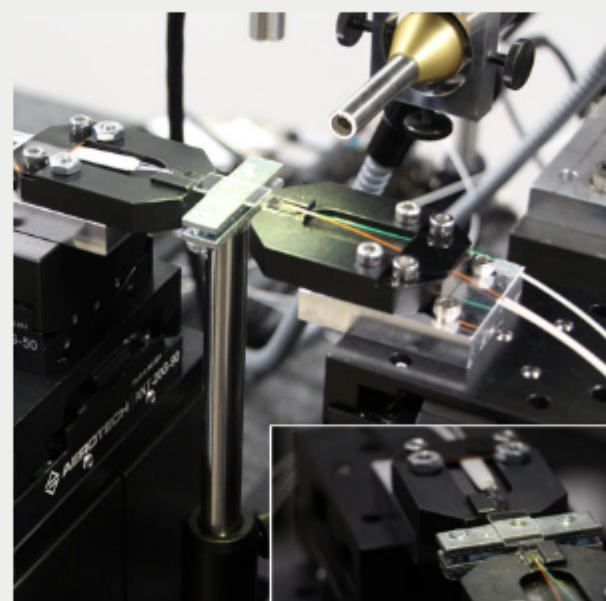
RJ Hardt is a mechanical engineer and business development manager for Aerotech Inc., where he focuses on the optics and photonics industry. He helps companies perfect manufacturing or test processes by incorporating precise, reliable motion control and automation technologies. He has worked at Aerotech for nearly a decade and has served in various mechanical and applications engineering roles. He holds a bachelor's degree in mechanical engineering from West Virginia University. Additionally, he has both a master's degree in mechanical engineering and an MBA from the University of Pittsburgh. You can contact Hardt at rhardt@aerotech.com or +1 412-967-6890.

Who should attend:

Engineers and researchers who work with positioning equipment to solve fiber optics manufacturing processes and who are interested in practical solutions to challenging automation problems will benefit from this webinar. Additionally, any person who needs to develop an automation process to uncover new results in a lab setting, or achieve scale in a high-volume production setting, will gain in-depth motion control expertise from this webinar.

About Aerotech Inc.:

Since 1970, Aerotech Inc. has been the global industry leader in precision motion control and automation. From standard mechanical positioning stages and control systems to custom automation systems, Aerotech solutions enable manufacturing, testing, and inspection processes on a micrometer and nanometer scale for the world's best-known technology companies. The company provides servo and piezo nanopositioning stages and controls; engineering services for custom motion platforms; and software and algorithms to automate fiber optics device manufacturing processes.



Mark Your Calendar

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Required: Windows® 10, 8, 7, Vista, XP or 2003 Server

Mac® -based attendees

Required: Mac OS® X 10.6 or newer

Mobile attendees

Required: iPhone®, iPad®, Android™ phone or tablet, Windows 8 or Windows Phone 8

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