CS20921 - Model-Based Layout and Quality Assurance with BIM360 and iCON Robotic Total Stations

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Construction productivity issues can be addressed with solutions such as BIM-to-Field workflows. Yet with so many tools available, defining a process must evolve quickly. This session will demonstrate how PARIC utilizes integrated technology to streamline office-to-field workflows, that increase accuracy and reduce production timelines. We will demonstrate how a broad set of tools are used to collect data, integrate teams, and coordinate work both in-the-field and from the office.

In addition to reviewing best practices, we will provide a sample workflow to capture “real world” data with Leica iCON robotic total stations, laser scanners, and 3DR drones. Then we will discuss how to process this data for use in virtual coordination and logistics, then route it back to the field for construction purposes.

AIA Approved
Key learning objectives

At the end of this class, you will understand how to:

- Use reality capture technology to inform project logistics, BIM coordination, and building layout practices
- Leverage Revit models to create layout points
- Share data from office-to-field in a seamless workflow
- Establish best practices for establishing project site controls
- Layout and round-trip as-built data
- Benefit from an integrated approach to technology
Services
General Contractor, Construction Manager, Design/Build, Self-Perform
REALITY / VIRTUAL / REALITY
Hardware
REALITY / VIRTUAL / REALITY
Data Capture – Aerial Scanning
Logistics - Examples
Deviation Analysis – Model Correction
Construction – Management
Construction - Layout
Challenges – Layout & Control
Ongoing Development
Questions?

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Thank You

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How did we do?

Session CS20921

- Your class feedback is critical. Fill out a class survey now.
- Use the AU mobile app or fill out a class survey online.
- Give feedback after each session.
- AU speakers will get feedback in real-time.
- Your feedback results in better classes and a better AU experience.