CS227118

The Power of Reality Capture and AI Benchmarking for Improved Project Delivery -

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HoloBuilder

Will Plato
Hensel Phelps

Learning Objectives

Understand the concept and value of reality capture

Learn how to integrate 360-degree photo documentation into your workflow

Learn how to reduce the amount of time spent documenting project progress

Learn how best practices can be communicated and shared across projects

Description

Will Plato, VDC manager at Hensel Phelps, will introduce and discuss his innovative use of construction technologies and the co-development of reality capture, computer vision, and artificial intelligence (AI) technologies. Hensel Phelps has partnered with HoloBuilder to further develop their 360-degree photo-documentation platform and solve immediate needs on projects throughout the Southwest region. Mr. Plato's presentation will outline how Hensel Phelps has used technology to secure ROI and gain a competitive advantage; show how to successfully involve key members of the team in software development projects; and demonstrate the next-generation AI reality analytics tools that Hensel Phelps is piloting with HoloBuilder. After an initial MVP dashboard, analytics based on computer vision and machine learning were added to supplement the HoloBuilder projects. Comparing project progress ratios has helped Mr. Plato and his team apply learnings from one project to the next, and help Hensel Phelps become an even better builder.

Speaker(s)

Elissa Flandro is the Customer Success Manager & Head of Content at HoloBuilder. She received her BS and MS in Civil & Environmental Engineering at Stanford University. Her construction experience includes working on the Construction Management team for the San Francisco International Airport Terminal 3 (United) and the Program Management/Project Controls team for the Transbay Terminal in San Francisco though URS (acquired by AECOM). She also served as the Business Development Manager for a drone startup called Airphrame, working with companies in the engineering, insurance, and mining industries. She currently leads the SF Chapter for the Society for Construction Solutions.

Will Plato is a VDC Manager in the Southwest District of Hensel Phelps with a demonstrated history of working in the construction industry and a passion for applying technology to improve processes so that Hensel Phelps can build projects faster, cheaper, and safer. Having a background in steel fabrication and erection has kept his mindset firmly rooted in supporting field operations and ensuring that Hensel Phelps does not waste effort using technology for the sake of using technology. Will oversees all BIM implementation, technology acquisitions, and process integrations. This has helped grow his knowledge in all aspects of our operations from safety, engineering, constructability coordination, material sciences, cost management, and quality control.

What is HoloBuilder? What value does reality capture bring?

HoloBuilder is the fastest and easiest way to document construction site progress through 360° photos and BIM renderings in a secure SaaS cloud environment, covering all phases of the project lifecycle. With a super-fast and efficient workflow, you can create a digital replica of your job site and access it remotely from anywhere. Share it with project stakeholders and eliminate the need for them to travel on site.

HoloBuilder provides a complete record of construction activities including who, what, where, when, why, and how - eliminating any doubt.

With HoloBuilder you can:
● Track and analyze daily or weekly site progress in 360°
● Reduce documentation time by 50%+
● Know current site condition anytime from anywhere
● Create impressive handover documents for owners
● Build trust & collaboration among team members & stakeholders

Document the entire lifecycle of your project from Design through O&M

HoloBuilder scales to fit any project
HoloBuilder was built to scale - no matter how large your team may be or how many photos you capture. Our collaborative platform allow you to invite your team as well as other stakeholders.

All you need to get started is to give you team in the field a 360° camera and download the JobWalk app for iOS or Android. You can sign in to see the latest 360° images in the Web Editor as well as add additional information, text, markups, PDFs, and much more.

HoloBuilder's enterprise dashboard is the central point of access to all 360° reality capture projects within your organization, with an intuitive user interface and multi-tiered user administration. Invite users to your account and control levels of access from the dashboard.