Assemble + BuildingConnected: Quantity Take-Offs in the Cloud

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About the speaker

Brent Ramos

• Experienced estimator, project manager, and licensed contractor
• Four years of experience leading and managing sales teams for Assemble Systems
• Lives with his wife Tamara in Folsom, California with their four children.
Challenges in Construction Today

LIMITED BUDGETS
TIGHT SCHEDULES
FIERCE COMPETITION
LABOR SHORTAGE
DISTRIBUTED TEAMS
What Does It Take to Win In Preconstruction?

- Increased Transparency
- Successful Handoffs
- Effective Communication
- Healthier Relationships
- Accurate Schedules
- Controlled Project Costs

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CONNECT & CONSTRUCT SUMMIT
The Problem with Traditional 2D Methods

Many companies are still using traditional 2D methods, either quantifying on paper plans or using PDFs on desktop applications. These methods have many challenges...
The Power of Collaboration in the Cloud

- Ensures all project teams are building from the correct information
- Easily collaborate on the 3D models and supporting documents
- Avoid errors by transferring information across all project phases
- Understand full project scope by referencing both the drawings and the models
How Autodesk Is Addressing These Challenges
BuildingConnected: 2D Takeoff in the Cloud

Click here to view animated GIF
Assemble: BIM Data and Quantity Management

- Change Analysis
- Conditioned Models
- Model Quantification
- Iterative Precon Estimating
- Project Sequencing
- Access Models & Views
- BIM 360 Integration
- Winning at the Interview
Value to General Contractors

- Improved collaboration
- Monitor design progress and changes
- Perform model-based takeoff
- Verify subcontractors' bids
- Real-time project tracking
Value to Specialty Contractors: Structural Steel

- Quickly get tonnage of steel framing
- Breakdown by type
- Increased time savings in takeoff
- Explore design and costing analysis
- Stay on top of design changes
Value to the Specialty Contractors: Concrete

- Quickly get volume calculations
- Calculate formwork, waste factor, and more
- Add information to the model
- Create a complete 3D visual
- Stay on top of design changes
Value to the Specialty Contractors: Exterior

- Skins are constantly changing and expensive
- Skins are a high priority item for owners
- 2D + 3D perspective gives the whole picture
- Color coded materials = better understanding
- Allows for faster insight into cost impacts
Value to the Specialty Contractors: Interior

- Extract quantities
- Organize them by partition type
- Visualize and quantify design changes
- Explore VE options for cost control
- Access from the field for progress tracking
Value to the Specialty Contractors: MEP

- Publish coordinated files to Assemble
- Quantify by volume or weight
- Track and report project progress
- Build out to a dashboard % complete
Model-Based Takeoff (Product Demo)

Click here to view video demo
Leveraging Quantities for the Bidding Process
The Ultimate Goal: Leveraging Data to Its Fullest Potential
Create Project Benchmarks

Current and historical project data can be aggregated to create benchmarks, increasing efficiency and predictability.
Establish Market Price

Costs can fluctuate based on location, season, and market conditions. Estimators can look at historical data to establish market price.
Construction Health Check: Are You Using Data to Maximize Performance?

Take the quiz: autodesk.com/health-check
Q&A
Thanks!

Want to learn more about Autodesk’s suite of preconstruction solutions? Visit us in the Village!