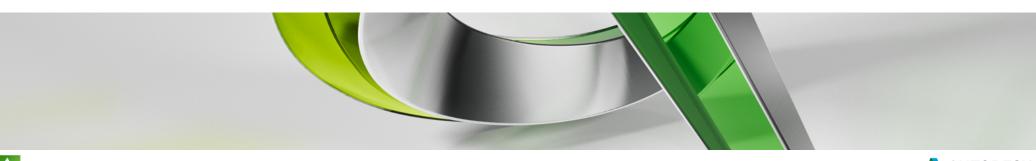
AS13737-P - AutoCAD to Povit and Boyond:

AS13737-R – AutoCAD to Revit and Beyond: An Introductory Guide for Architects and Engineers

Presented by Chris Motto and Martin Finn

Souza, True and Partners Structural Engineers







Christopher Motto

- Structural Engineer and at Souza, True and Partners, Inc.
- 8 Years Professional Experience in Structural Engineering
- BIM Technology Leader



Martin Finn

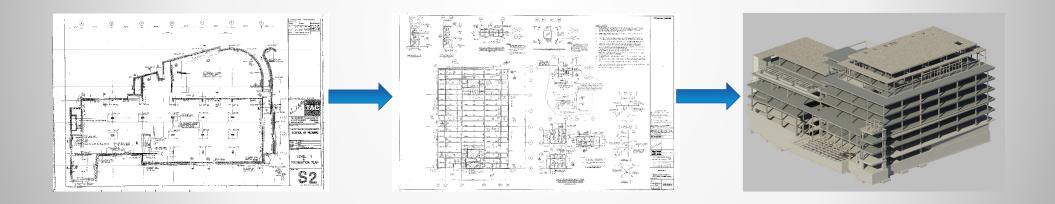
- Structural Engineer at Souza, True and Partners, Inc.
- 4 Years Professional Experience in Structural Engineering
- BIM Coordinator





Class summary

This class is a roundtable discussion on the integration of Revit for small to mid-sized engineering firms working in building construction. By sharing our own experiences we hope to gather insights that will be useful for companies making the transition from CAD to BIM.









Key learning objectives

At the end of this class, you will be able to:

- Be prepared to handle the problems of transferring from CAD to BIM, and their solutions.
- Understand the use of Revit by a small to mid-sized engineering firm.
- Use Revit efficiently to develop construction documents for any sized project.
- Use collaborative technologies such as Autodesk 360 in developing interdisciplinary Revit projects.



Consulting Firm Established in 1959

- Structural Discipline
- Clients architects, owners, and contractors
- Primary focus is building design:
 - Health Care
- Laboratory
- Research
- Museums
- Academic
- Municipal
- Commercial
- Parking
- Residential
- Commercial
- Typical services:
 - Analysis & Design Evaluations
 - CA

Peer reviews

- Feasibility
- Expert witnesses

Duke Univ. Cancer Center

(Scotland)

#AU2015









Souza True's path to BIM Adoption

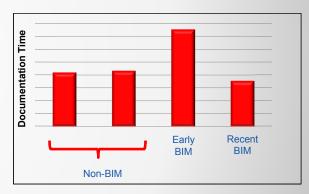
2007 - Adoption Begins

- Driven by client adoption
- Need to remain competitive
- Respond to increasing demands
- Develop skills and services



The Learning Curve

- Start-up and Implementation
- Project Management
- Long-term Development



Reaching the Goal

- Adapt Workflow
- Renewed Collaboration
- Changing the Office



Getting the process started:

Why make the jump to REVIT and BIM?

- Client Adoption required for continued business
- Marketing benefit your company profile
- Expand Skills –increasing complexity, better coordination
- Expand Services pre-con. services, take-offs, estimation

What are the initial hurdles to success?

- Infrastructure Costs hardware, storage, network capability
- Software licensing, subscription, cloud services
- Training Autodesk University, 3RD party training, certifications
- Communication learning the lingo, conveying information





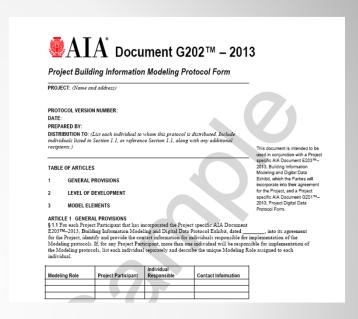




Project Management:

What are the challenges to a successful BIM project?

- Schedule
- Level of Development
- **Transferring Information**
- Coordination



How do you overcome these challenges?

- Workflow Modeling vs. Engineering
- Stakeholder Responsibility AIA G202, element ownership
- A360, BIM 360 Glue, on-line meetings
- Clash Detection, Fabrication, Phasing



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Long-Term Transition:

What happens to the business?

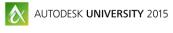
- Measuring Impacts man-hours, COR, RFI, SKS
- Standardization BIM management, library of details
- Customization family files, add-ons
- Contracts cost of BIM delivery
- Multiple Models Analysis vs. Detailing, interoperability
- Employee Responsibility drafters and designers



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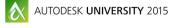




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