

The Great Debate: Do Engineers Need to Model in 3D?

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Class summary

- In this round table session, we will discuss the benefits of using Revit from both the Architectural and Engineering point of view. Architects can explain why Engineers need to use Revit and Engineers can defend sticking with AutoCAD. Construction Managers can also weigh in on why it helps when the Engineer produces a three-dimensional model.

Key learning objectives

- During this roundtable, we will discuss:
 - the use of Revit by engineers as compared to architects.
 - the benefits of using Revit.
 - The process to switch from AutoCAD to Revit.
 - BIM Execution Plans.
 - what changes the industry needs to make.

Discussion Rules

- Keep comments brief
- No long speeches
- No complaining about Autodesk
- Don't be afraid to share problems, but not gripes
- Talk about solutions that work for you
- Please participate!

Getting to Know Each Other

What is your area of work?

- MEP Engineering
- Structural Engineering
- Architecture
- Contractor
- Other

What is your responsibility?

- Project Manager
- BIM/CAD Manager
- Design

Which program do you use?

- Revit
- AutoCAD
- Revit and AutoCAD
- Other

Use of Revit by Engineers as Compared to Architects

- In your company/user group/area/etc. how many engineers use Revit as compared to architects?

Benefits of Using Revit

- As an architect, how does Revit help?
- As an architect, where does Revit add more time?
- As an engineer, how does Revit help?
- As an engineer, where does Revit add more time?
- As an architect, how does a 3D model from the engineer help?
- As an engineer, how does sticking with AutoCAD help?
- Will an architect use an engineer that does not use Revit?
- How does a 3D model help the construction process?

The Process to Switch from AutoCAD to Revit

- If you strictly use AutoCAD, what steps should be taken to implement Revit?
- If you use Revit, how long did it take to get setup?
- If you use Revit, how many projects did it take to get standards and procedures created?

BIM Execution Plans

- What makes a good BIM Execution Plan?
- Does your company have a BIM Execution Plan template to start each project?

Changes the Industry Needs to Make

- If it takes engineers longer and helps the GC, but the engineers are not getting paid more and architects require it, then what needs to change?
- Do contractors actually use the Revit model to help build the building?

Conclusions

- A summary of this discussion and conclusions reached will be posted online by December 15th.

Contact Information

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