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An Open Discussion on Current MEP Workflows

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CADLearning by 4D Technologies

Learning Objectives

- Discuss problems and solutions associated with mechanical design in Revit
- Discuss problems and solutions associated with electrical design in Revit
- Discuss problems and solutions associated with plumbing design in Revit
- Discuss other methods and programs to help improve productivity

Description

As engineers, we typically have certain ways we like things to be done. But Revit software has an exact way things must be done. Often, those 2 ways are not the same. While most people agree that using Revit as part of the Building Information Modeling (BIM) process is the way to go, we still face challenges with some of these strict program workflows. For example, maybe you have trouble automating parameters and getting systems to calculate properly, or getting circuits to behave the way you want them to. The good news is that there have been several improvements to the MEP (mechanical, electrical, and plumbing) tools in Revit over the past few years. And with the development of Dynamo software, MEP design in Revit has made some major leaps forward. In this session, we'll discuss the current pitfalls and issues with MEP workflows inside Revit. Then we can focus on solutions or work-arounds that improve productivity. It's always great to be able to discuss your problems with other people who struggle with the same things. Let's talk about these ideas and share our solutions.

Speaker

Jason Boehning is the Building Content Manager for all BIM and architectural CADLearning products from 4D Technologies, driving BIM content and developing on-demand learning material for Autodesk software, including Revit and Dynamo. Jason has a degree in Mechanical Engineering from Texas A&M, and helped a design firm in Houston, TX implement Revit to increase productivity for sustainable design and energy modeling. Since 2012, he has made a career of teaching building professionals how to use building design tools to increase productivity for sustainable design and energy modeling. Jason is also a contributing author to several CADLearning eBooks. Jason is an Autodesk Certified Professional for Revit Architecture, Revit Structure, Revit MEP Mechanical, and Revit MEP Electrical. He also serves as an Autodesk Revit Mentor All-Star for Revit users, and he is a repeat speaker at BILT North America and Autodesk University.

Introduction

While the tools in Revit for MEP design have improved over the years, there are still some major pitfalls in MEP workflows. Workarounds typically involve paying a large sum of money for another tool to accomplish the task or spending a great deal of time to get the task done. Neither of these is ideal.

One of the best ways to address problems is to reflect on them with our peers that are experiencing the same things. With all of our experiences, trials and errors, we can help each other move forward.

Mechanical Design

Which programs do you use during the mechanical design process?

What are some of the biggest pitfalls in your mechanical design workflows?

How are you currently addressing the problems you have?

What do you wish you could do better?

Electrical Design

Which programs do you use during the electrical design process?

What are some of the biggest pitfalls in your electrical design workflows?

How are you currently addressing the problems you have?

What do you wish you could do better?

Plumbing Design

Which programs do you use during the plumbing design process?

What are some of the biggest pitfalls in your plumbing design workflows?

How are you currently addressing the problems you have?

What do you wish you could do better?

Productivity Solutions

What tips do you have to increase productivity?