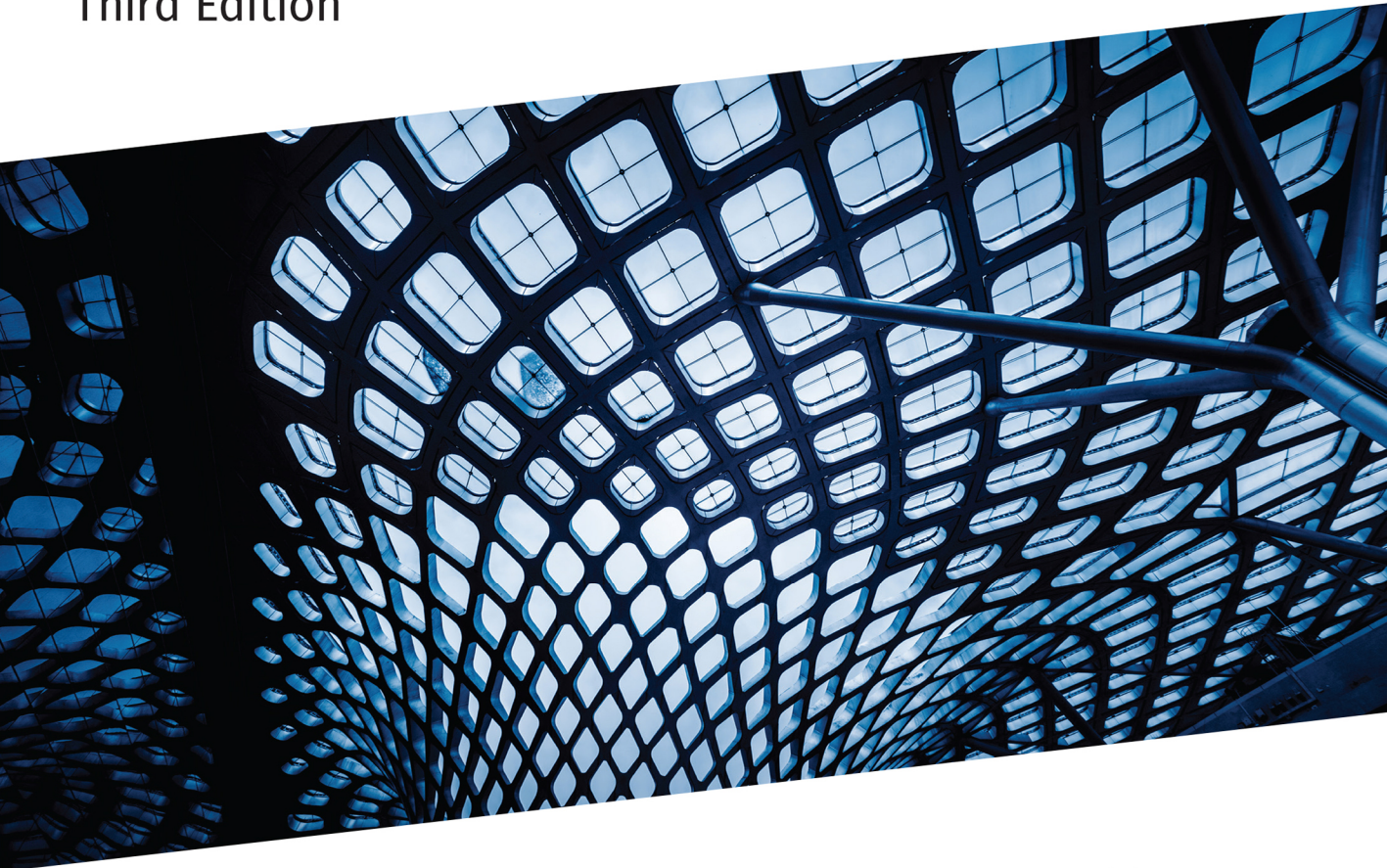


Eric Wing

# Revit® 2024 for Architecture

NO EXPERIENCE REQUIRED

Third Edition







**REVIT® 2024 FOR  
ARCHITECTURE**

***NO EXPERIENCE REQUIRED***

**THIRD EDITION**



# REVIT® 2024 FOR ARCHITECTURE

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THIRD EDITION

Eric Wing



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*To my family, Jen, Cassidy, and Jacob. Thanks for waiting patiently on the weekends, and weeknights, and on vacations as I work away.*



# ACKNOWLEDGMENTS

*With this volume of* the book, I was given tons of time to make sure everything was in place. Although this book does not cover everything, it will be a great resource for the Autodesk exam and as a desktop reference as you work on projects. With new little tidbits peppered throughout, this book is basically brand-new, with every word and figure carefully reviewed and poured over. I feel confident we made a great book.

When I say “we” I mean that, although I am the guy who belches out words and images, and that’s pretty much it, my family sacrifices most. That is because this is one of many jobs I have, so I am constantly working. It has been this way for my children’s entire lives. So first and foremost, I thank my family.

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# ABOUT THE TECHNICAL EDITOR

*Kimberly Esquilin* is a recent graduate from Syracuse University's School of Architecture. She took an introductory Revit course with author Eric Wing at SU and eventually became his undergraduate assistant. In this role, she helped students learn the fundamentals of Revit. Kimberly is currently working full-time as an architectural designer at C&S Companies in Albany, New York, and is working toward her license in architecture.





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# INTRODUCTION

*Why do you need* a big, thick technical book? Well, it's true that the best way to learn is to just do it. But do you ever just *do* it and not fully *get* it? Books can serve either as the basis for learning or as supplements for your learning. No one book will teach you everything you need to know about a specific application, but you may never learn everything you need to know about an application without a book. When written appropriately, the book you purchase is there to start you off using good practices. If you have already begun, the book serves as a desktop reference. And last, a book can serve as confirmation that you're approaching an application in the correct manner.

This book about the Autodesk® Revit® tool is no exception. Although this application has proven to be easy to learn and easy to get a feel for, it's still a deep, sometimes complicated application with many procedures that require step-by-step instructions to understand fully. And to be honest, some of these features just don't work in the real world.

This book has been written by an author who is "in the trenches" using Revit every day. So, yes, you could figure out all this information on your own, but sometimes, it's nice to let someone else figure it out for you and pass that knowledge along to you in the form of a book.

Instead of lengthy paragraphs of text that ultimately lead to nontangible information, this book addresses each subject in a step-by-step approach with more than 1,000 pictures and screenshots to make sure you're on track.

Also, this book uses an actual project and relates to real-world scenarios. As you're following the step-by-step procedures in the book, you'll be encouraged to try many techniques on your own and also to embellish the procedure to fit your own needs. If you would rather stick to the instructions, this book allows you to do that as well. The book's project uses a five-story office building with a link (corridor) to a three-story multi-use building. The book's website provides the model (plus additional families) you'll need for each chapter so that you can open the book, jump to your chapter of interest, and learn something! In addition, this book is flexible enough that you can substitute your own project if you don't want to follow the book's examples.

Although it has hundreds of pages, this book doesn't waste time and space with examples of other people's triumphs but is designed for you to open to any random page and learn something.

## Who Should Read This Book

*Autodesk® Revit® 2024 for Architecture: No Experience Required.* Does that mean that if you've used Revit, you won't find this book advanced enough? No. This book is designed for anyone who wishes to learn more about Revit Architecture. The book is also intended for architects, architectural designers, and anyone using a CAD-based platform to produce architectural-based drawings.

## What You Need

Building Information Modeling (BIM) can be tough on hardware. This book recommends that you have 16 GB of RAM with a 4 GHz processor. You should also be running at least 1 GB for your graphics. If you're under these specifications (within reason), in some cases you'll be fine. Just realize, however, that when your model is loaded, your system may start slowing down.

All Revit applications are intended to run on a PC-based system. Windows 11 is recommended.

Included with the book are Revit Architecture project files that follow along with the instructions. Each chapter has one or more actual Revit models that have been completed up to the point of the instruction in that specific chapter—or even that specific section of the chapter—to allow you to jump in at any moment. Also included with the book are custom families that accompany the lessons as well as additional families and projects that you can download as a bonus. You can download the accompanying files at [www.wiley.com/go/revit2024ner](http://www.wiley.com/go/revit2024ner).

### FREE AUTODESK SOFTWARE FOR STUDENTS AND EDUCATORS

The Autodesk Education Community is an online resource with more than five million members that enables educators and students to download—for free (see website for terms and conditions)—the same software used by professionals worldwide. You can also access additional tools and materials to help you design, visualize, and simulate ideas. Connect with other learners to stay current with the latest industry trends and get the most out of your designs. Get started today at [www.autodesk.com/joinedu](http://www.autodesk.com/joinedu).



# What Is Covered in This Book

*Autodesk® Revit® 2024 for Architecture: No Experience Required* covers the essentials of using the software and is organized as follows:

## Chapter 1: The Autodesk Revit World

This chapter introduces you to the Revit Architecture 2024 interface and jumps right into modeling your first building.

## Chapter 2: Creating a Model

This chapter begins with placing walls, doors, and windows. It's designed to point you in the right direction in terms of using reference planes and all-around best practices.

## Chapter 3: Creating Views

This chapter shows you how to navigate the Revit Project Browser and create new views of the model. Also, you'll learn how to create specific views such as elevations, sections, callouts, plans, and, our favorite, 3D perspectives.

## Chapter 4: Working with the Autodesk Revit Tools

In this chapter, you'll learn how to use the everyday drafting tools needed in any modeling application. You'll become familiar with such actions as trim, array, move, and copy. Although it seems remedial, this is one of the most important chapters of the book. It gets you on your way to the "Revit feel."

## Chapter 5: Dimensioning and Annotating

In this chapter, you'll learn how to annotate your model. This includes adding and setting up dimensions, adding and setting up text, and using dimensions to physically adjust objects in your model.

## Chapter 6: Floors

Yes! Just floors. In this chapter, you'll learn how to place a floor. You'll also learn how to add materials to a floor and how to pitch a floor to a drain.

## Chapter 7: Roofs

In this chapter, we'll discuss the ins and outs of placing roofs. You'll learn how to model flat roofs, sloping roofs, pitched roofs, and roof dormers. In addition, you'll learn how to pitch roof insulation to roof drains.

## **Chapter 8: Structural Items**

In this chapter, you'll delve into the structural module of Revit Architecture. The topics we'll cover include placing structural framing, placing structural foundations, and creating structural views.

## **Chapter 9: Ceilings and Interiors**

This chapter focuses predominately on interior design. Placing and modifying ceilings will be covered as well as adding specific materials to portions of walls and floors. You'll also learn how to create soffits.

## **Chapter 10: Stairs, Ramps, and Railings**

This chapter focuses on the creation of circulation items. You'll learn how to create a simple U-shaped multistory staircase to start; then you'll move on to creating a custom winding staircase. From there, you'll learn how to create a custom wood railing. You'll add ramps to the model in this chapter as well.

## **Chapter 11: Detailing**

In this chapter, you'll learn how to draft in Revit. The procedures allow you to draft over the top of a Revit-generated section or create your own drafting view independent of the model. You'll also learn how to import CAD to use as a detail.

## **Chapter 12: Creating Specific Views and Match Lines**

In this chapter, you'll learn how to take advantage of the multitude of views you can create and how to control the visibility graphics of those views to create plans such as furniture and dimensional plans.

## **Chapter 13: Creating Sheets and Printing**

This chapter explores how to produce construction documents using Revit. The procedures include creating a new drawing sheet, adding views to a sheet, creating a title block and a cover sheet, and plotting these documents.

## **Chapter 14: Creating Rooms and Area Plans**

The focus of this chapter is creating rooms and areas. The procedures lead you through the placement of rooms, and you'll learn how to set the properties of those rooms. We'll also discuss how to create room separators and how to create gross area plans. This chapter also guides you through the creation of a color-fill floor plan.

## **Chapter 15: Advanced Wall Topics**

This chapter focuses specifically on the creation of compound walls. By using the Edit Assembly dialog, you'll learn how to add materials, split walls, and add

sweeps and reveals such as parapet caps, brick ledges, and brick reveals. Creating stacked walls is also addressed.

### **Chapter 16: Schedules and Tags**

In this chapter, you'll start bringing the BIM into your model. This chapter focuses on adding schedules and annotation tags to specific objects and materials in your model. Most importantly, in this chapter, you'll learn how your model is parameter-driven and how these parameters influence the annotations.

### **Chapter 17: Rendering and Presentation**

In this chapter, you'll learn how to use the Revit rendering tools built into the Revit GUI. This chapter also shows you how to create walkthroughs as well as solar studies.

### **Chapter 18: Creating Families**

With this chapter, you will get into the most valuable part of Revit: Families. We will start with what a family actually is and how they behave within your model. Then we will create a profile family and move to a more advanced door family. Look for many of these procedures on the Autodesk Revit Architecture exam.

### **Chapter 19: Project Management**

If it is your desire to become a BIM manager or just get a great feel for how Revit manages your drawings, this is a good chapter to look at. We will start with project phasing (renovation projects), then jump to how to create a work-shared model so that several people can access the models at one time.

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## **PRACTICE TEST ONLINE**

Although this book is not an exam prep Study Guide, we've added a new online practice test for you if you are interested in preparing for the valuable Autodesk Certified Professional in Revit for Architectural Design certification exam. If you are interested in gaining this certification and furthering your career, this online practice test will help you assess your readiness for the exam, determine what sections of the book you should study more, and then increase your chances of passing it the first time! This practice test will be available by January 3, 2024. After that date go to [www.wiley.com/go/sybextestprep](http://www.wiley.com/go/sybextestprep) to register and gain access to this interactive online learning environment.

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## Contacting the Author

As you're reading along, please feel free to contact me on LinkedIn [www.linkedin.com/in/eric-wing-9662524](http://www.linkedin.com/in/eric-wing-9662524), and I will be glad to answer any questions you have.

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