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Autodesk Revit Architecture 2015

ESSENTIALS

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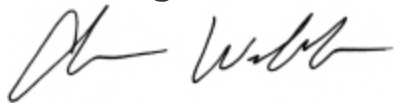
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Best regards,

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Chris Webb
Associate Publisher, Sybex

For Stacey, Lucely, and Nathaniel—can we take a vacation now please?

—Ryan

For Noelle, growing as I write!

—Tobias

For my family—for instilling in me the simple values of hard work and ambition.

—Tessa

About the Authors



Ryan Duell is a principal quality assurance analyst for Revit at Autodesk. He holds a bachelor's degree in design computing from Boston Architectural College. He started his career with cbt Architects in Boston, Massachusetts, working on a variety of project teams ranging from single-family residential to large commercial projects. Ryan transitioned into the BIM manager role focusing on Autodesk® AutoCAD® Architecture and Autodesk® Revit® Architecture standards, along with contributing assistance to project teams. At Autodesk he spent several years in the product support organization providing Revit support for end users and enterprise accounts. In addition to Autodesk, Ryan teaches Revit at the Boston Architectural College and contributes to the Revit Clinic blog.



Tobias Hathorn is a licensed architect and user experience designer for Autodesk FormIt. He holds a bachelor's degree in architecture from Kansas State University. He started his career at BNIM architects in Kansas City, Missouri, working on a one-million-square-foot IRS paper-processing center in Revit Architecture. After

working as a liaison between BNIM and Moshe Safdie and Associates on the Kansas City Performing Arts Center, Tobias moved to Boston to join the Revit product team in Waltham, Massachusetts. Tobias has honed his knowledge and experience with Revit, especially the graphics and rendering features, over the past seven years in the quality assurance and user experience groups. He is currently working on FormIt, a conceptual design tool to aid in the early stages of a BIM workflow. In his free time, he likes to teach Revit Architecture, bicycle, paint, and play Tetris.



Tessa Reist Hathorn is a licensed architect and a LEED Accredited Professional with nine years of experience in architecture using Revit. After starting her career at BNIM Architects working on historic renovations and the renowned Kauffman Center for the Performing Arts, she eventually moved to Boston, Massachusetts, to work with Moshe Safdie and Associates, working on high-profile international projects, and later Austin Architects in Cambridge, Massachusetts. Tessa currently works as an architect in the Boulder, Colorado, area at Fänas Architecture and consults for local architecture firms.

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—Ryan

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—Tobias

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—Tessa

Foreword

It is an understatement to say that the AECO industry is going through the most profound transformation since Brunelleschi's Dome of Santa Maria del Fiore, circa 1446.^{[1](#)} If we were a less risk-adverse group, we would call it a revolution. But alas, we are not. So we simply call it BIM—building information modeling.

BIM is our change initiative. As humans, we are hardwired to fight change; we are born with an instinct to defend ourselves...and our ideas. So change agents (including you, since you've picked up this book!) must think about practicing BIM holistically:

BIM is 10 percent technology, 90 percent sociology.

As a leadership member of the AGC/AIA BIMForum, I spend a lot of time thinking about the sociology and management science. As one of the Tocci Building Companies' BIM champions since we formalized our implementation in 2006, I apply frameworks like Deming's Cycle for continuous improvement (Plan, Do, Check, Act) and Tuckman's Stages of Group Development (Forming, Storming, Norming).

I don't spend enough time talking about the 10 percent that instigated the 90 percent and continues to fuel our shared change initiative. The technology is so foundational that it is simply assumed. Perhaps I continue to make the same mistake I did when I was first introduced to BIM. I started using Revit Architecture in 2004. The software was intuitive and logical. Being a novice, I thought that both BIM and Revit were the industry standard! But then and now, we still have work to do.