Autodesk® Building Design Suite 2014
Discover What’s New

Curt Egli
Synergis Building Solutions Engineer
Solutions for the Building Industry

Autodesk Building Solutions

- Structural engineering
- MEP engineering
- Construction
- Architecture
- Owners & Operators
Customers use the Suites to:

Design – visualize – simulate – collaborate

- More rapidly explore and evaluate multiple design ideas
- Create compelling visualizations to present ideas more clearly
- Simulate designs to better predict real-world performance
- Access designs through the web or mobile devices and collaborate from almost anywhere
Autodesk Building Design Suite

A comprehensive software portfolio that can help you to:

- Design and build better buildings
- Produce compelling visualizations
- Use integrated simulation and analysis* 
- Create consistent documentation*
- Improve control over project outcomes

*Building Design Suite Premium and Ultimate Only
Contains powerful workflow capabilities that connect desktop software products and services in the cloud.

The Building Design Suite includes:

- More streamlined Workflows
- Expanded toolsets and a more consistent user experience
- Economical and Convenient Purchase
- Access cloud capabilities through Autodesk Subscription
Autodesk Building Design Suite 2014

A comprehensive software portfolio that combines Building Information Modeling (BIM) and CAD tools to help you design, simulate, visualize, and construct better buildings.

**Standard**
For building designers, drafters, & detailers
- Autodesk® AutoCAD®
- Autodesk® AutoCAD® Architecture
- Autodesk® AutoCAD® MEP
- Autodesk® AutoCAD® Raster Design
- Autodesk® ReCap™
- Autodesk® AutoCAD® Structural Detailing
- Autodesk® Showcase®
- Autodesk® SketchBook® Designer

**Premium**
For architects and engineers
- Autodesk® Revit®
- Autodesk® 3ds Max® Design
- Autodesk® Navisworks® Simulate

+ **Standard Edition**

**Ultimate**
For architecture, engineering, & construction professionals
- Autodesk® Navisworks® Manage
- Autodesk® Robot® Structural Analysis Professional
- Autodesk® InfraWorks
- Autodesk® Inventor®

+ **Premium Edition**

= New Products
Autodesk Building Design Suite

New products in suite

Add powerful raster editing and raster-to-vector conversion tools to your design workflow

Powerful, integrated, easy to use services that create intelligent 3D data from laser scans and photos

Autodesk® AutoCAD® Raster Design

Autodesk® ReCap™
Raster Design demonstration

- Raster-to-vector conversion
- Raster cleanup tools
- Tonal adjustment
- Rubbersheeting
- Optical character recognition

**Demonstration...**

Add powerful raster editing and raster-to-vector conversion tools to your design workflow.
Autodesk ReCap

- Create intelligent 3D data from laser scans
- Clean, organize, and visualize massive datasets captured from reality
- Add, modify, validate and document your design process in the context of existing environments
Autodesk ReCap Product Line

**ReCap Studio**
- Desktop application
- Data Preparation, QA and Verification
- Direct import into Autodesk design solutions

**ReCap Photo**
- Autodesk 360 service
- Create high resolution 3D data from photos
- Visualize and share 3D data

**ReCap Engine**
- In-Product Point cloud viewer
- Powerful new data format
- Segmentation, Measurement, Manipulation
Autodesk ReCap Product Line

ReCap Studio
- Desktop application
- Data Preparation, QA and Verification
- Direct import into Autodesk design solutions

ReCap Engine
- In-Product Point cloud viewer
- Powerful new data format
- Segmentation, Measurement, Manipulation

Demonstration...
New features in Autodesk Revit 2014

Productivity and interoperability enhanced

This includes:

- Enhanced BIM design
- Improved analysis
- Enhanced documentation
- Improved interoperability between Revit and AutoCAD
- Enhancements to the API
Autodesk Revit demonstration

Displacement

IKEA assembly instructions
Quantification in Autodesk Navisworks 2014

Available in both Navisworks Manage & Navisworks Simulate
Autodesk InfraWorks

Create more accurate models - depicting the local environment

Sketch & design multiple design alternatives in context

Communicate rich proposals

Infraworks1.mp4
Design & build better buildings

Tools for BIM and CAD based design workflows

**BIM**
Use BIM tools for intelligent 3D model–based design.

**CAD**
Gain the benefits of working in cutting-edge CAD tools.
Autodesk Design Suites - Why?

An Uber-Product that does everything for everybody would be hard to navigate and hard to learn!
Autodesk Design Suites - Why?

Instead - Autodesk Design Suites become the Swiss Army knife for the multi-faceted roles of your job....
Autodesk Building Design Suite

Design tools for differing design needs

Design and share drawings in the .DWG file format

Versions of AutoCAD built for building professionals

Intelligent 3D model based design

Autodesk AutoCAD

Autodesk AutoCAD Architecture

Autodesk AutoCAD MEP

Autodesk AutoCAD Structural Detailing

Autodesk Revit*

*Available in Building Design Suite Premium and Ultimate Only
Produce Compelling Visualizations

Market and present your ideas

Communicate
Your ideas more effectively

Explore
Ideas more accurately within the context of the building or site

Create
High impact marketing visuals
Autodesk Building Design Suite

Visualization tools for differing needs

- **In process visualization**
- **Interactive presentations**
- **Cinematic animation and near-photorealism**

- Autodesk Revit*
- Autodesk Showcase
- Autodesk 3ds Max Design*

*Available in Building Design Suite Premium and Ultimate Only
Integrated Simulation and Analysis

Make more informed design and construction decisions

Simulate and analyze
Make more informed early design decisions

Sustainable design
Create more energy efficient designs
Autodesk Building Design Suite

Simulation tools for differing needs

Building performance analysis

Construction simulation

Advanced structural analysis

Autodesk Revit*

Autodesk Navisworks Simulate*

Autodesk Robot Structural Analysis Professional*

*Available in Building Design Suite Premium and Ultimate Only
Design and Build Better Buildings

Coordinated higher quality documentation

Coordinated and consistent
Create documents with greater accuracy and efficiency

Design to fabrication
Use design models to help speed the creation of fabrication drawings
Autodesk Building Design Suite

Tools for differing project documentation needs

Documenting design with greater accuracy

Building specific tools for greater drafting productivity

Coordinated, consistent documentation

Autodesk AutoCAD

Autodesk AutoCAD Architecture
Autodesk AutoCAD MEP
Autodesk AutoCAD Structural Detailing

Autodesk Revit*

*Available in Building Design Suite Premium and Ultimate Only
Improve control over project outcomes

Valuable insight before building starts

Greater visibility
Into building constructability, cost and schedules

Virtually explore
Your projects before breaking ground

Helps identify design conflicts
Before construction begins
Autodesk Building Design Suite

Tools to help you build more efficiently

Modeling for constructability

Construction simulation, coordination, analysis & quantification

Digital Prototyping for building fabrication

Autodesk Revit*

Autodesk Navisworks Simulate*

Autodesk Navisworks Manage**

Autodesk Inventor**

*Available in Building Design Suite Premium and Ultimate Only

**Available in Building Design Suite Ultimate Only
Thank You!

Autodesk is a registered trademark of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the rights to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.