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DEPARTMENT OF CIVIL ENGINEERING
PROUDLY PRESENTS

AUTODESK.

WORKSHOP ON AUTODESK FORMIT 360

Leading Design Software

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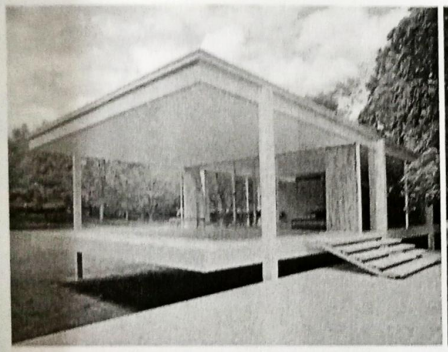
AUTODESK® FORMIT® 360

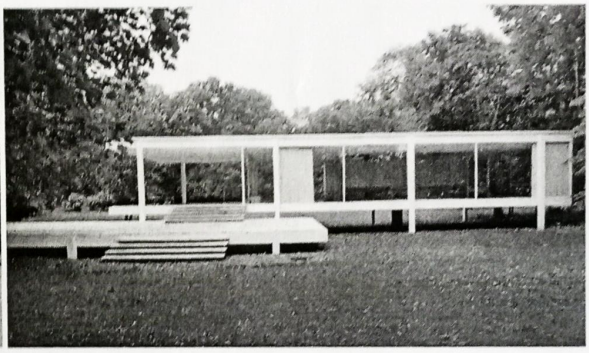
The FormIt 360 Primer

Version 0.1
July 13, 2016

Building the Farnsworth House

In this tutorial, we are going to build an entire historic modernist house in just under two hours!





Prerequisites for this Tutorial:

- Download FormIt 360 for Windows from: http://formit360.autodesk.com/page/download
- Running FormIt 360 for Windows requires a subscription to FormIt 360 Pro, which can be purchased from: http://www.autodesk.com/store/products/formit-360-pro
- Optionally, you can start a 30 day trial from the start up screen
- Revit 2016 or 2017. Note: this is only required for the section on Revit Interopability.

Note: If you cannot run FormIt 360 for Windows, the majority of the tutorial can be completed using the free Web version: http://formit360.autodesk.com/app

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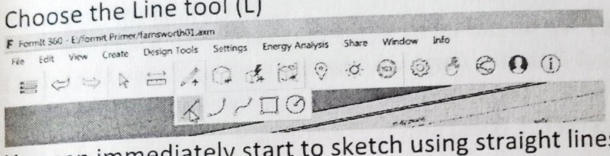
3D Sketching

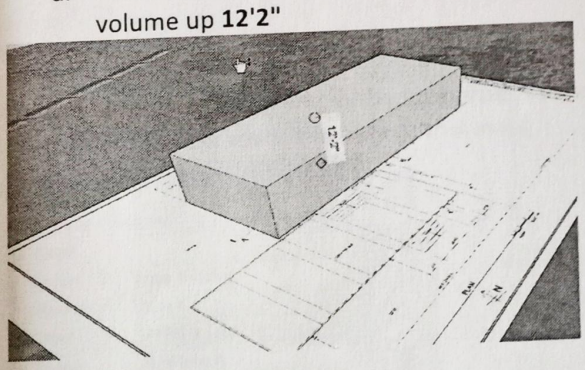
Placing primitives is fine, but the real power of FormIt lies in the ability to sketch in 3D. You got a sneak peak at the power of the snapping system when you used the Rotate tool in the last exercise. If you did not complete the last section, click the File > Open and choose **farnsworth01.axm** from the FormIt Primer folder

3D Sketching with lines

1. We are going to first Group the image plane. This will prevent sketched lines from "sticking" to it. Select the plane by double-clicking it, right-click and choose Group (G)
2. Click the Pencil to open the Sketching Toolbar
3. Choose the Line tool (L)



4. You can immediately start to sketch using straight lines segments
   a. The red, green and blue axes display to allow you to sketch in 3D without leaving the tool
   b. The purple axis displays an axis relative to the lines you are currently drawing
   c. Hold down the Shift key while dragging a line segment to lock to the current axis
5. Start with creating a rectangle on the ground plane
   a. Click Settings > turn off Snap to Grid (S G)
   b. With the Line tool, click on one corner of the imported sketch. Drag along to define one edge of the upper terrace
   c. Use the Tab key to input exact dimensions. Make the long side **77'-4 1/8"** and the short side **28'-8"**
   d. Press Esc. You are back in Select mode. You can now select the top face and immediately pull the volume up **12'2"**



Note: *the red and green axes keep you at 90 degrees. When you draw at an angle to the grid, a purple guide will allow you to stay 90 degrees relative to your current line.*

Optional – 3D Sketching with the rest of the tools

The following exercise is not critical to finishing the house. It will allow you to experiment with some of the other 3D Sketching tools.

1. Click to open the Sketching Toolbar
2. Select the Arc tool
   a. Click to define the first and second point similar to the Line tool
   b. The third drag defines the radius of the circle that defines the arc
   c. Note: as with all sketching tools, you can use the red snap points to snap to other objects in the scene
3. Select the Spline tool
   a. Click to define any number of points to draw a spline
4. Select the Circle tool

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"creativity is intelligence having fun."

- Albert Einstein

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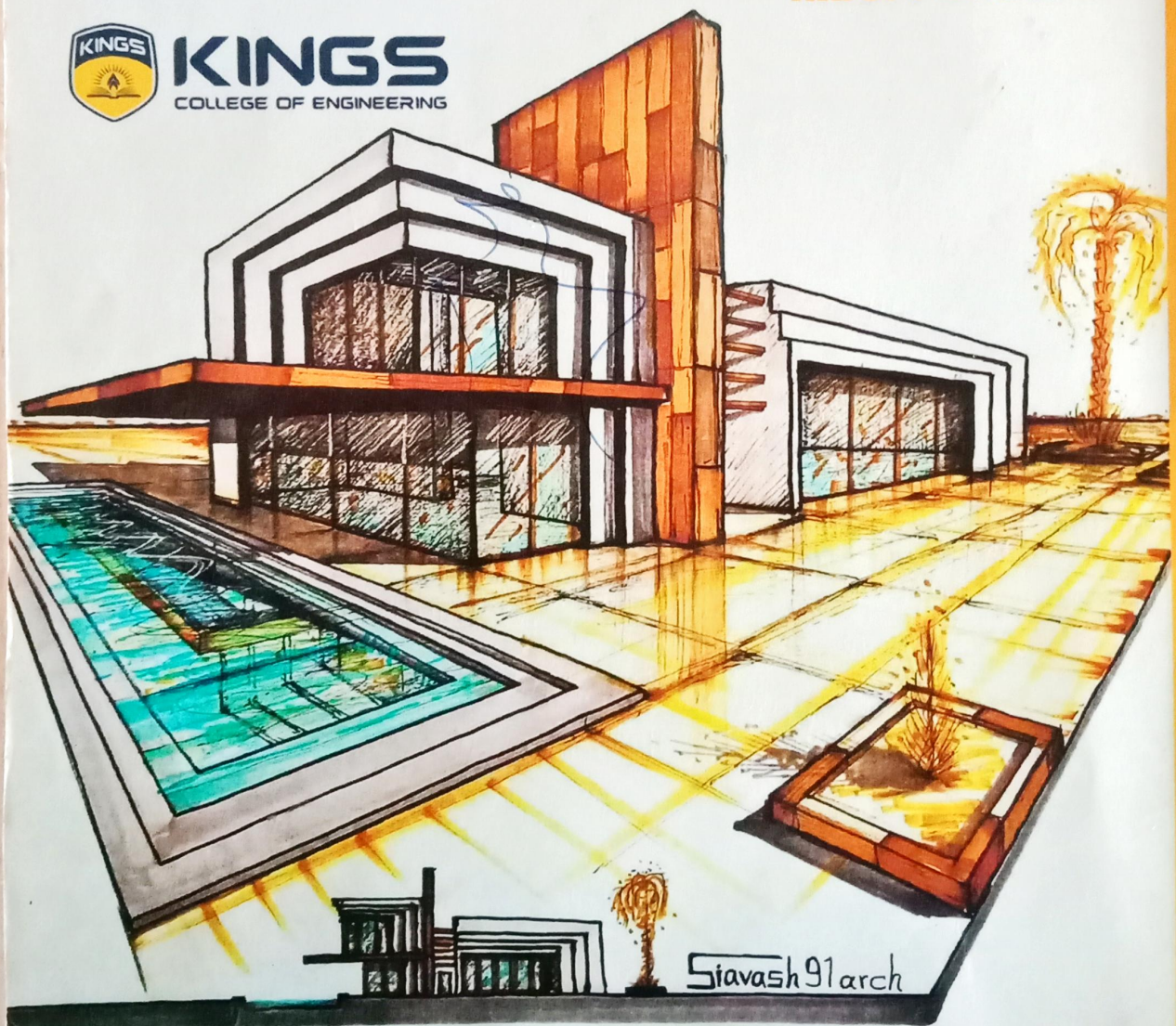

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Course Title	*Product*	
Rajesh Yadav	2018-02-19	8 hours
Instructor	*Date*	*Course Duration*

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