

The background of the slide is a complex, abstract wireframe mesh structure. It consists of numerous interconnected triangles and polygons, creating a fluid, organic shape that resembles a stylized, flowing architectural element or a natural form like a root system or a liquid droplet. The mesh is rendered in a light gray color against a white background.

# BLD123234 - Revit Fabrication Magic

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SolidCAD

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## Class Description

- Revit software's Fabrication tools have come a long way in a short time. This class will show the beginner how to get started. We'll look at the continuation of project workflow when converting the design model to a fabrication model. You'll learn how to convert design information to fabrication items, while discovering some of the pitfalls, and tricks to overcome them, along the way.

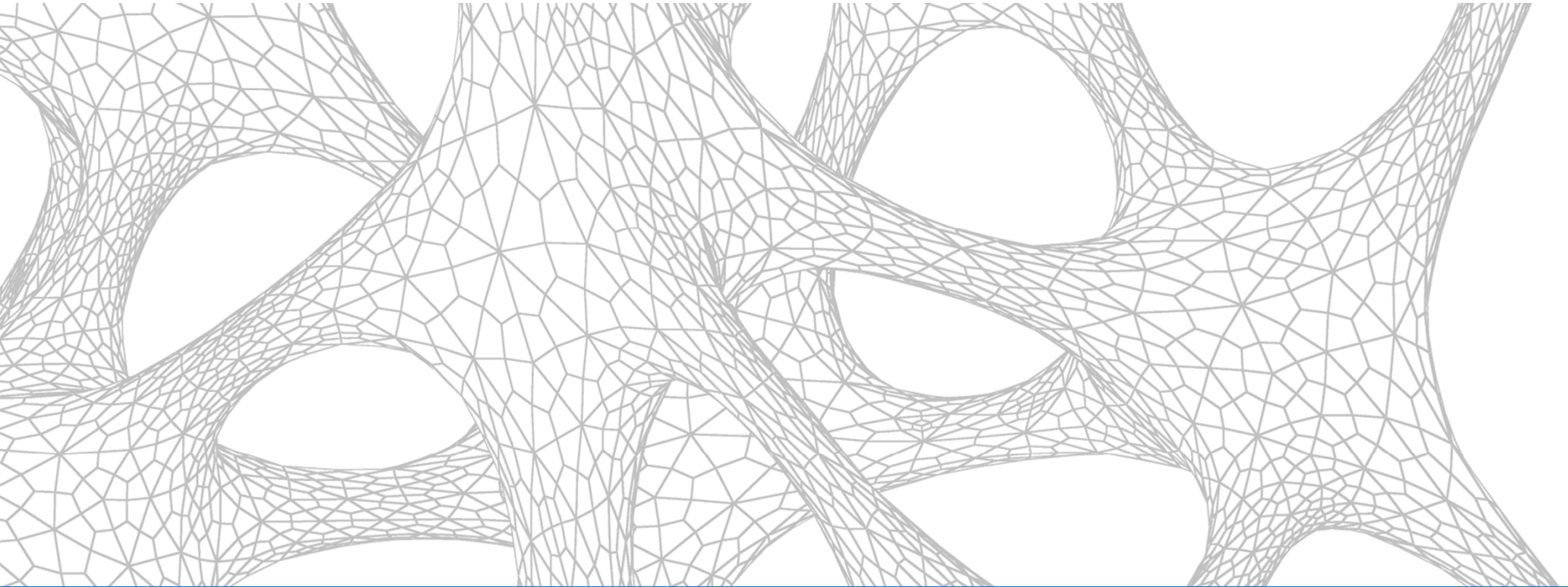
# Class Objectives

Learn how to convert design ductwork to fabrication ductwork

Learn how to identify bottlenecks and resolve issues with the conversion process

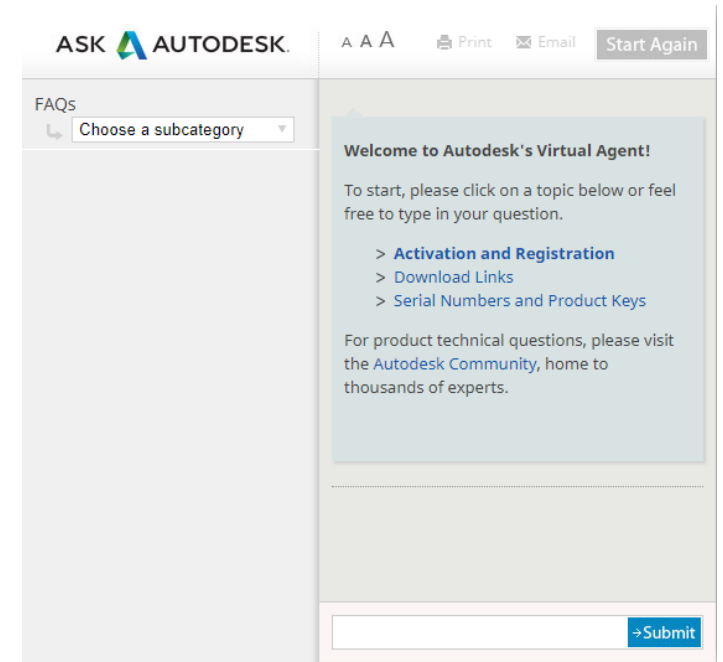
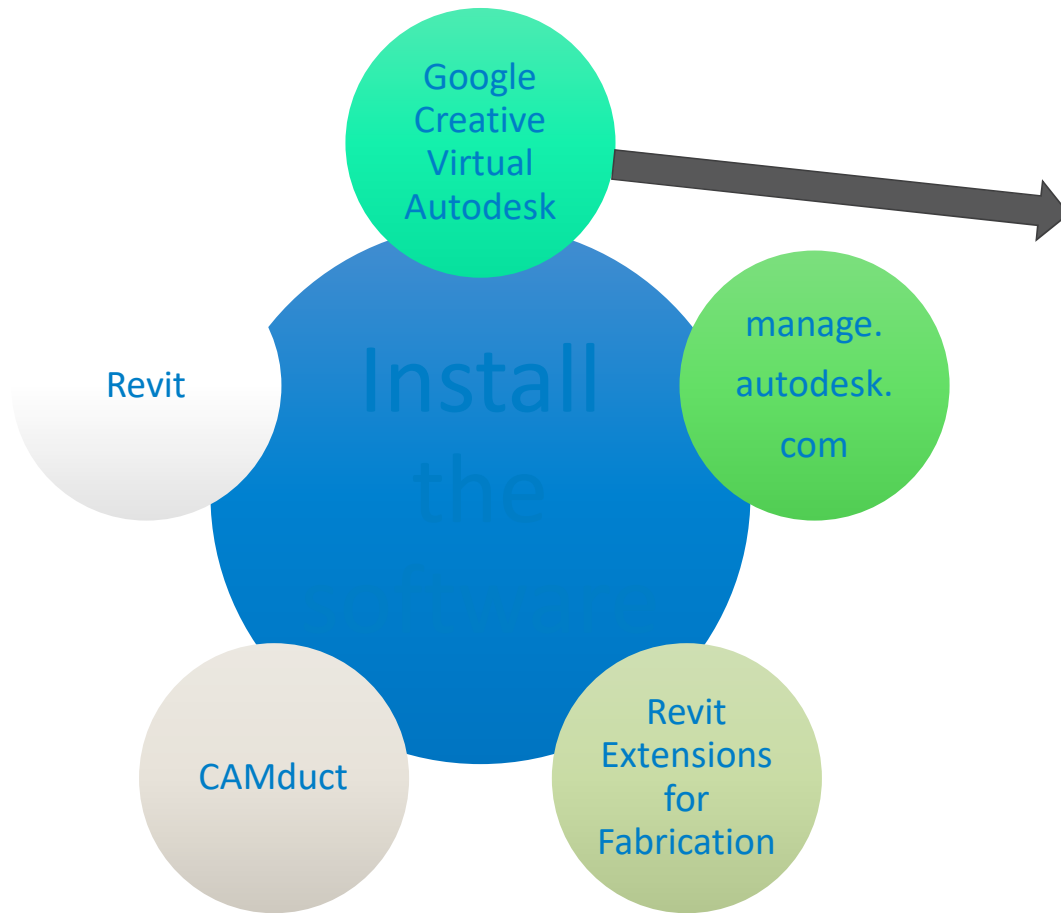
Learn how to edit fabrication duct work in multiple products

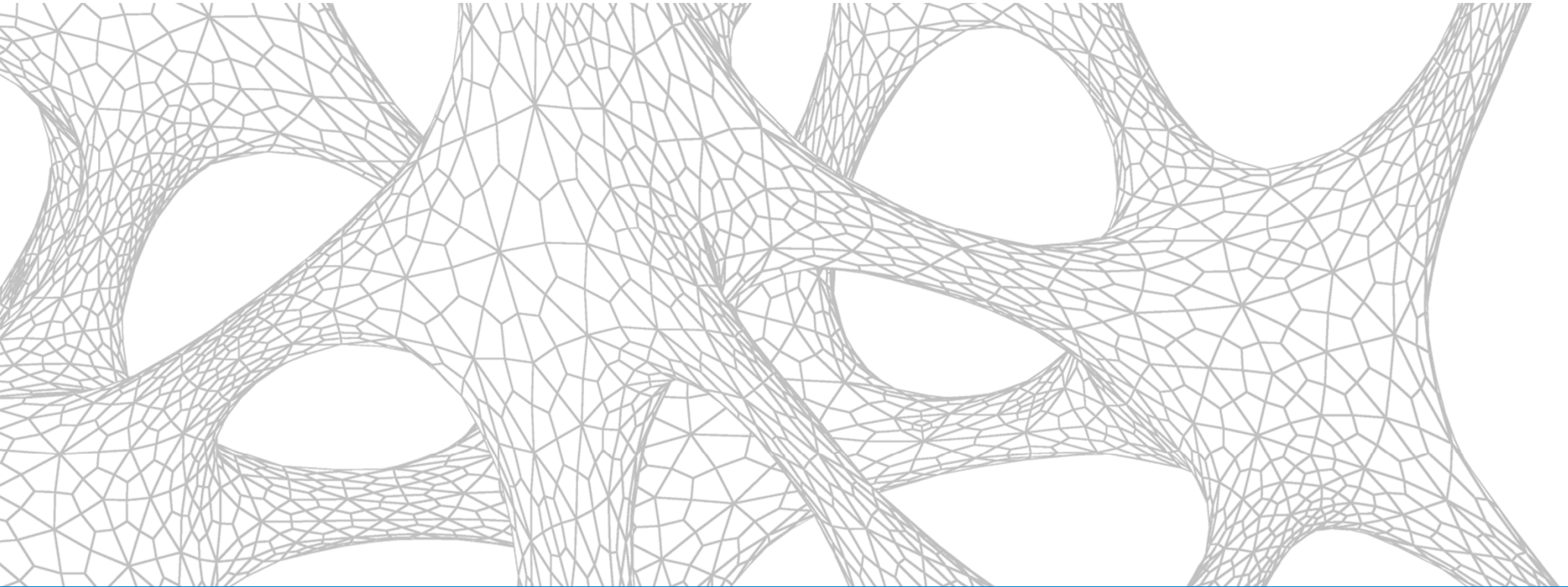
Learn how to create CNC data for export to your favorite cutting table



# Getting Started

# Getting Started





# Converting Design to Fabrication

# Requirements

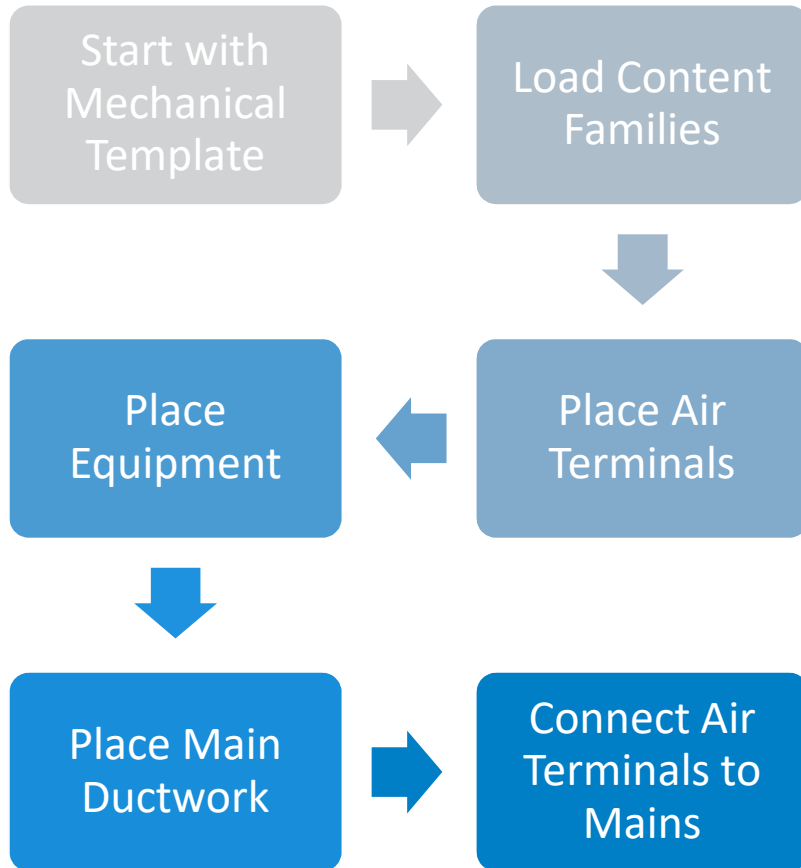
Accurate  
Design Model

Fabrication  
configuration

Fabrication  
service

Part Mapping

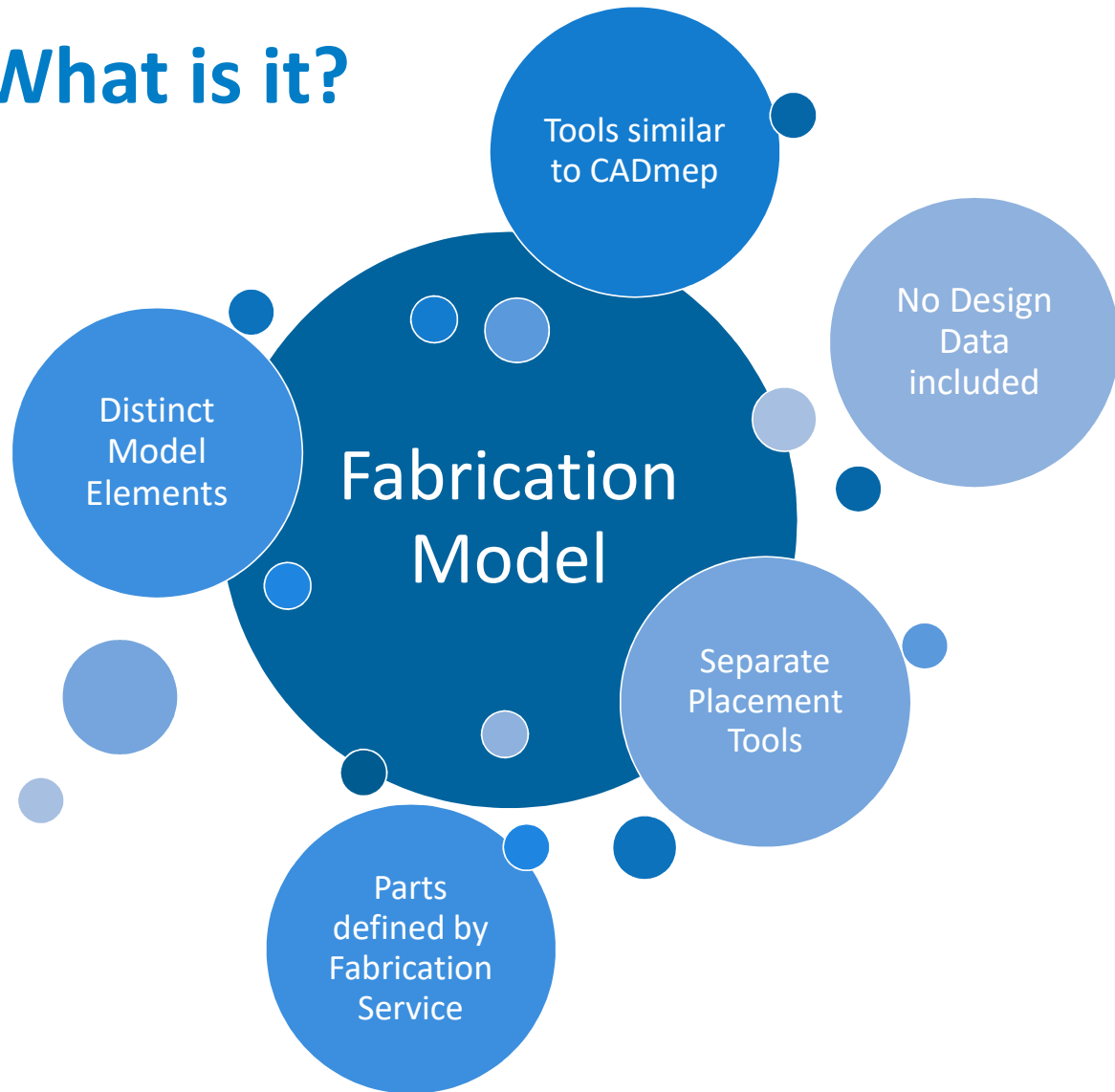
# Creating a Revit Design Model



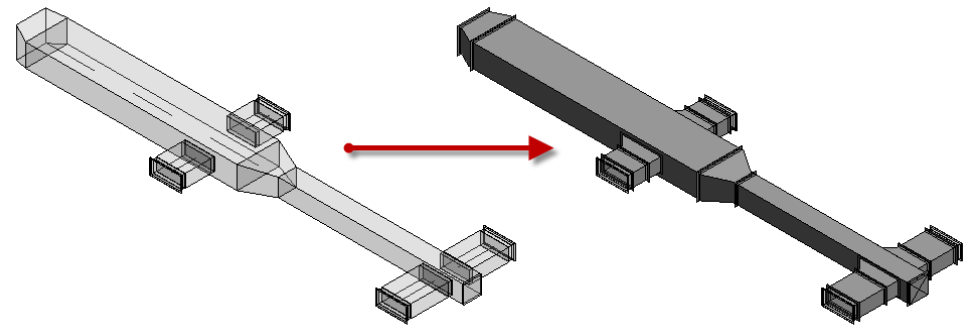
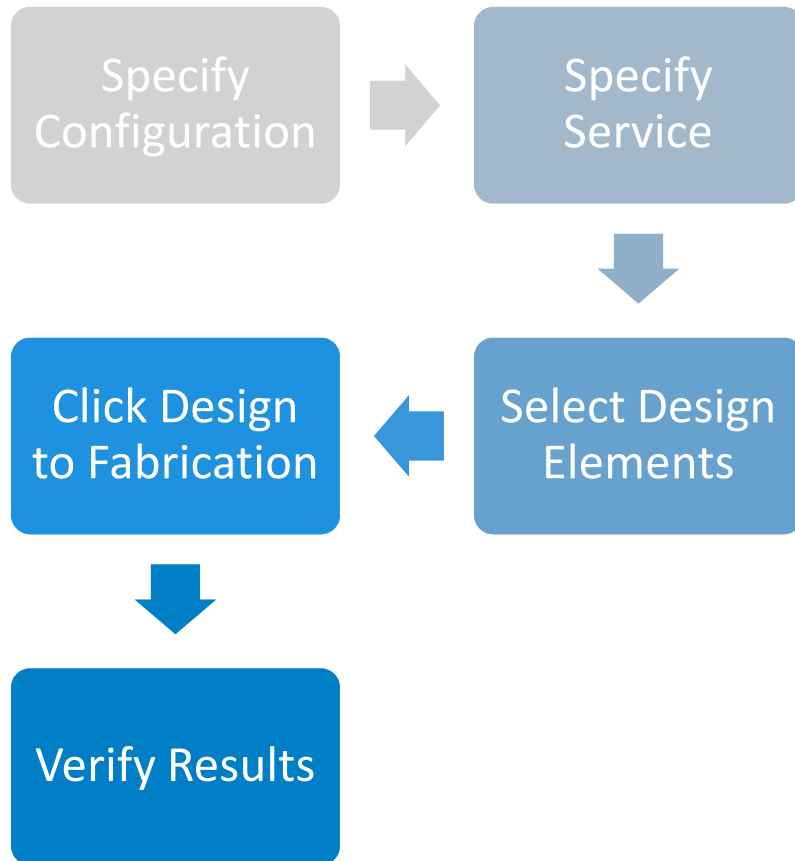
Open the  
Example File I  
have provided



# Revit Fabrication, What is it?

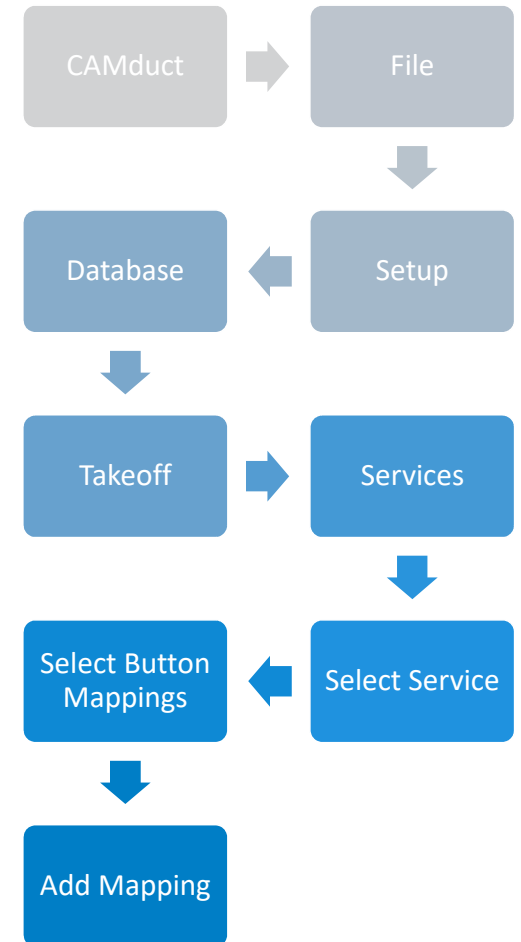
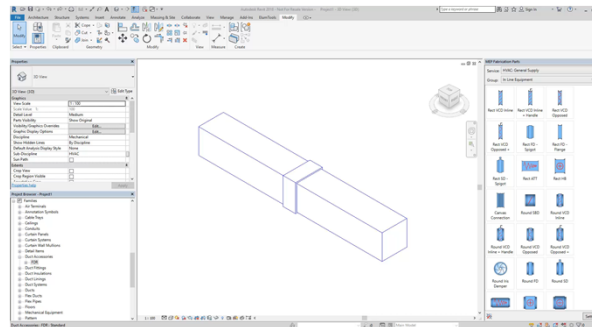


# Converting Design to Fabrication

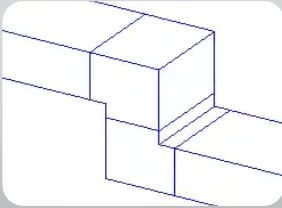


# Converting Everything

Button  
Mappings

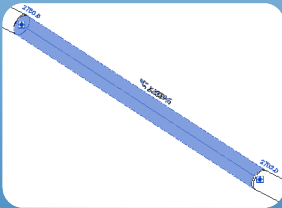


# Limitations



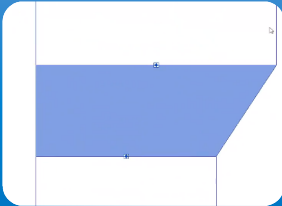
## Back to Back Fittings

- Elbow to Elbow
- Elbow into Transition



## Sloped Elements

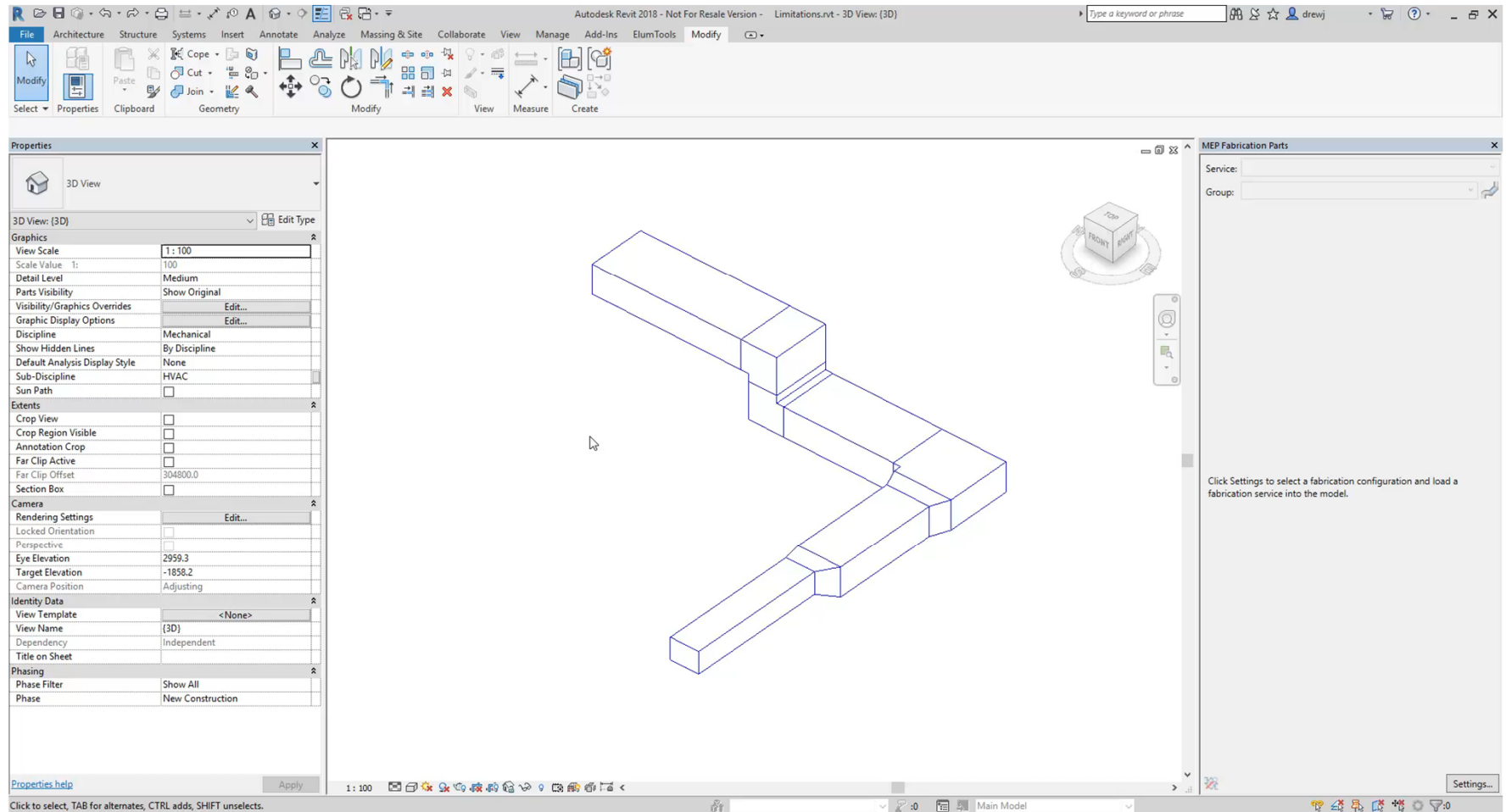
- More common to Piping



## Eccentric Connections

- Not Concentric

# Limitations



# Additional Tools



Optimize  
Lengths

## Optimize Lengths

- The fabrication specification defines the lengths based on the size of the fabrication element



Route  
and Fill

## Auto-Route from Point to Point

- Pick a Fabrication Part then start command
- Handles max of 2 changes in direction

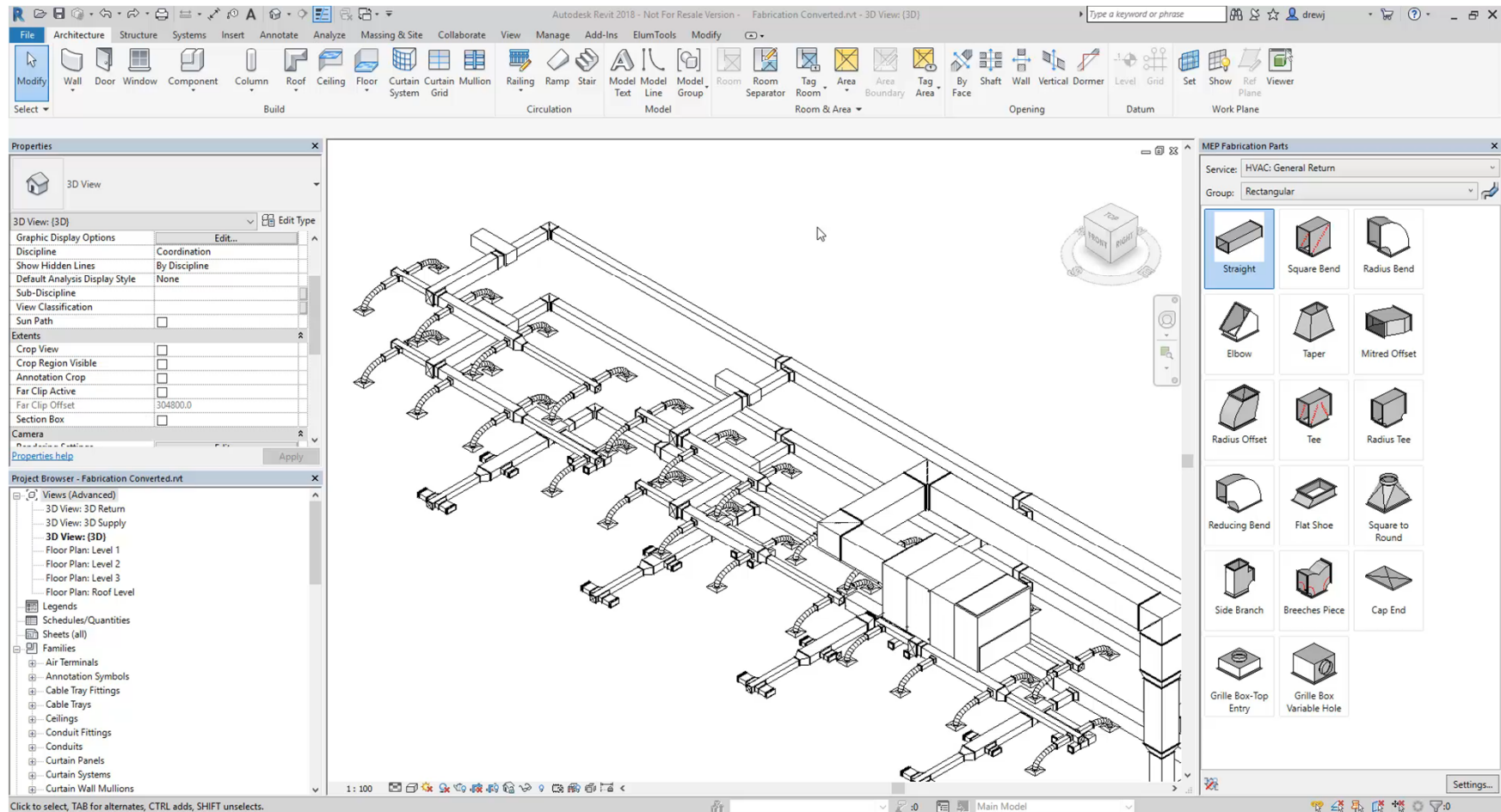


Edit  
Part

## Edit Part

- Change dimensions of Part
- Modify Connectors

# Additional Tool Videos



# Creating Fabrication Elements in Revit

Revit has  
Fabrication Parts  
Built Into It

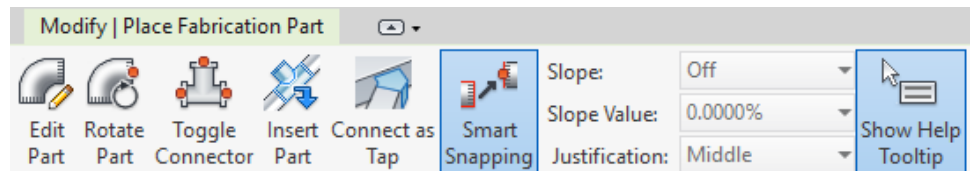
Tool Available on  
Systems Tab

Select  
Configuration  
and Service

Click and Place  
Parts

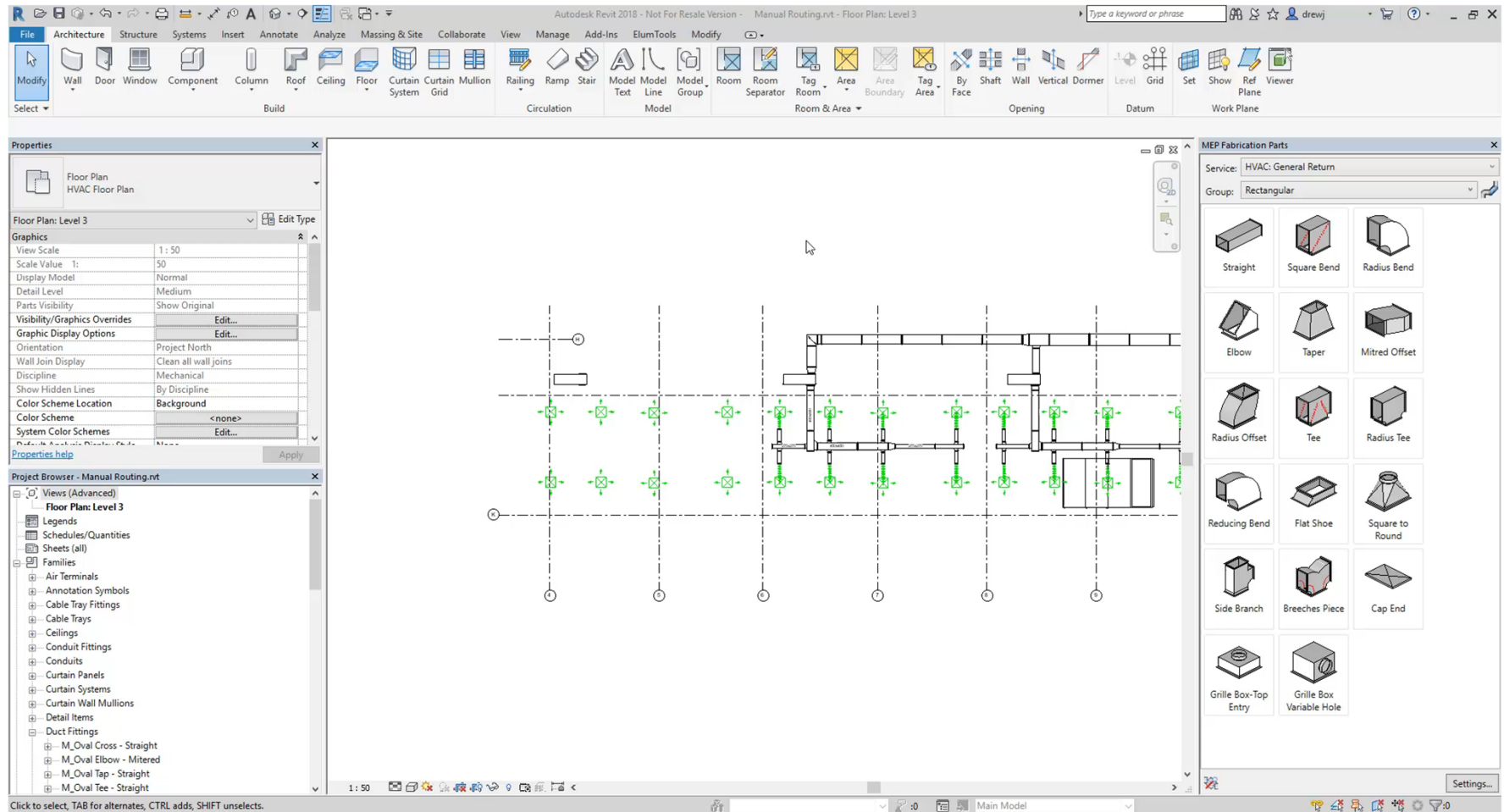
Multi-Point  
Available

Can be  
Scheduled

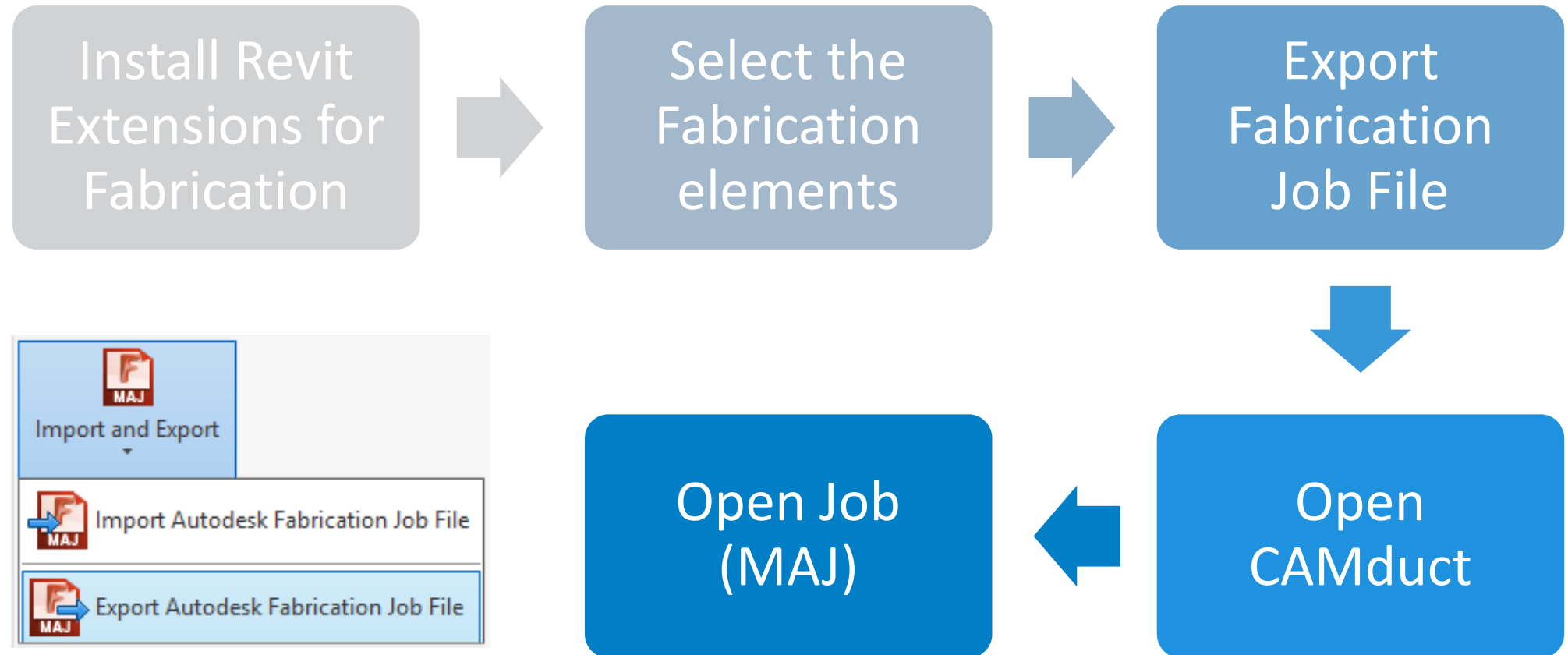




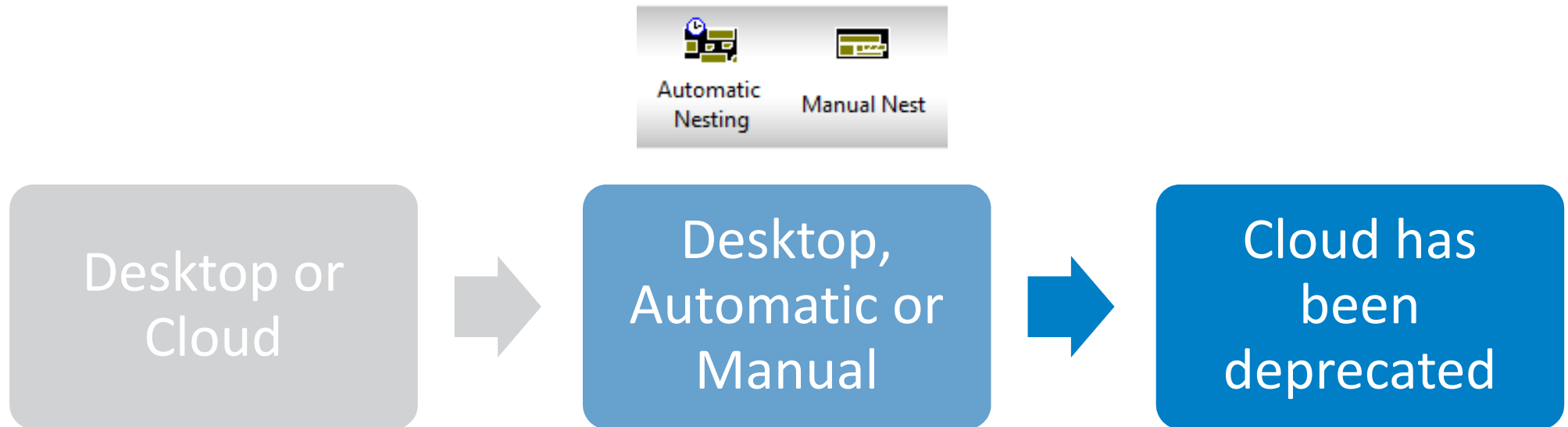
# Creating Fabrication Elements in Revit



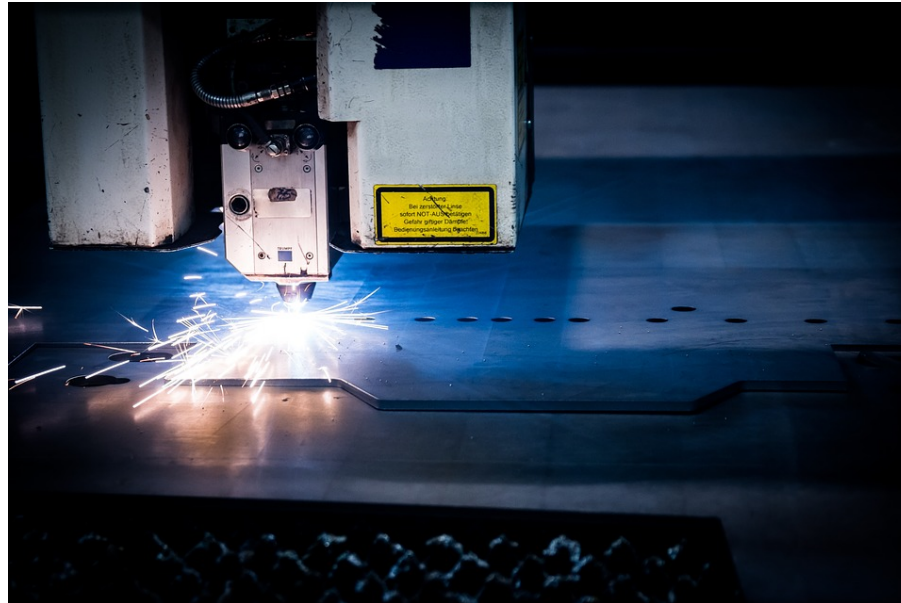
# Transfer Fabrication Elements to CAMduct



# CAMduct Nesting



# Create CNC



Setup Installed  
Machines



Select  
Controller

Utilities ->  
Write NC

Utilities ->  
View NC



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