BLD123234 - Revit Fabrication Magic

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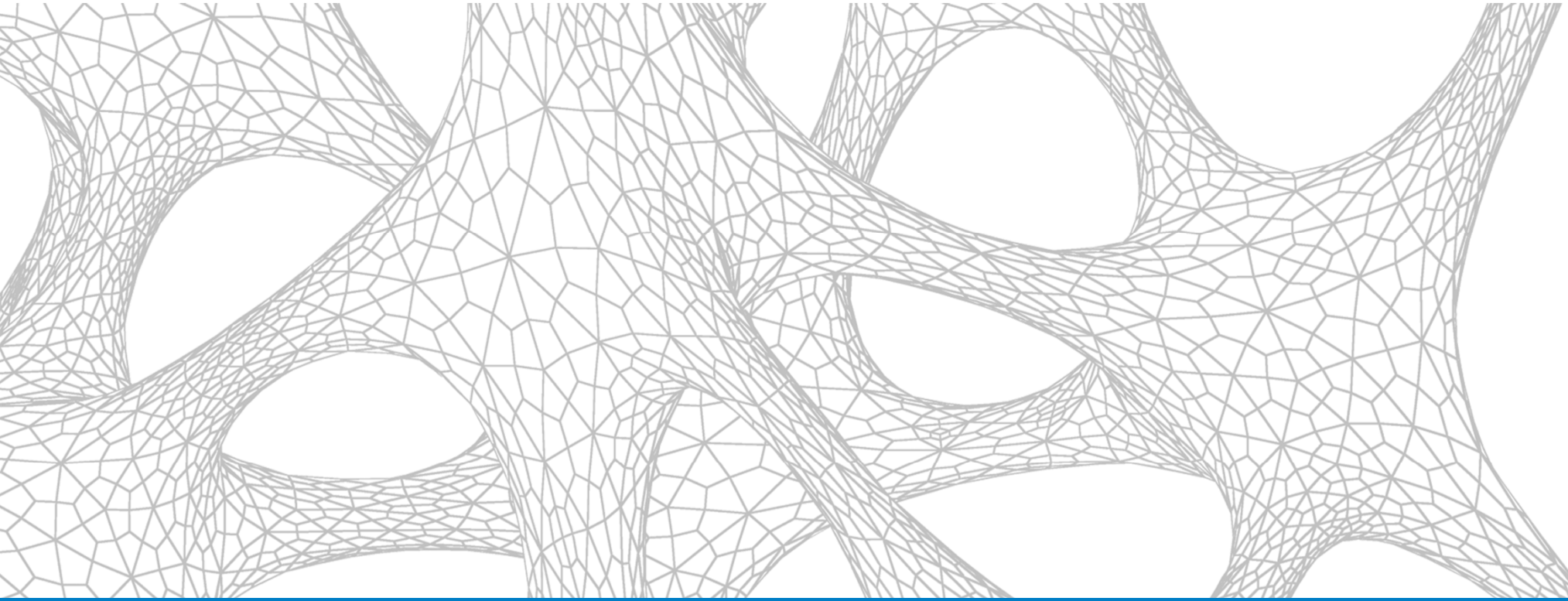
SolidCAD

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.

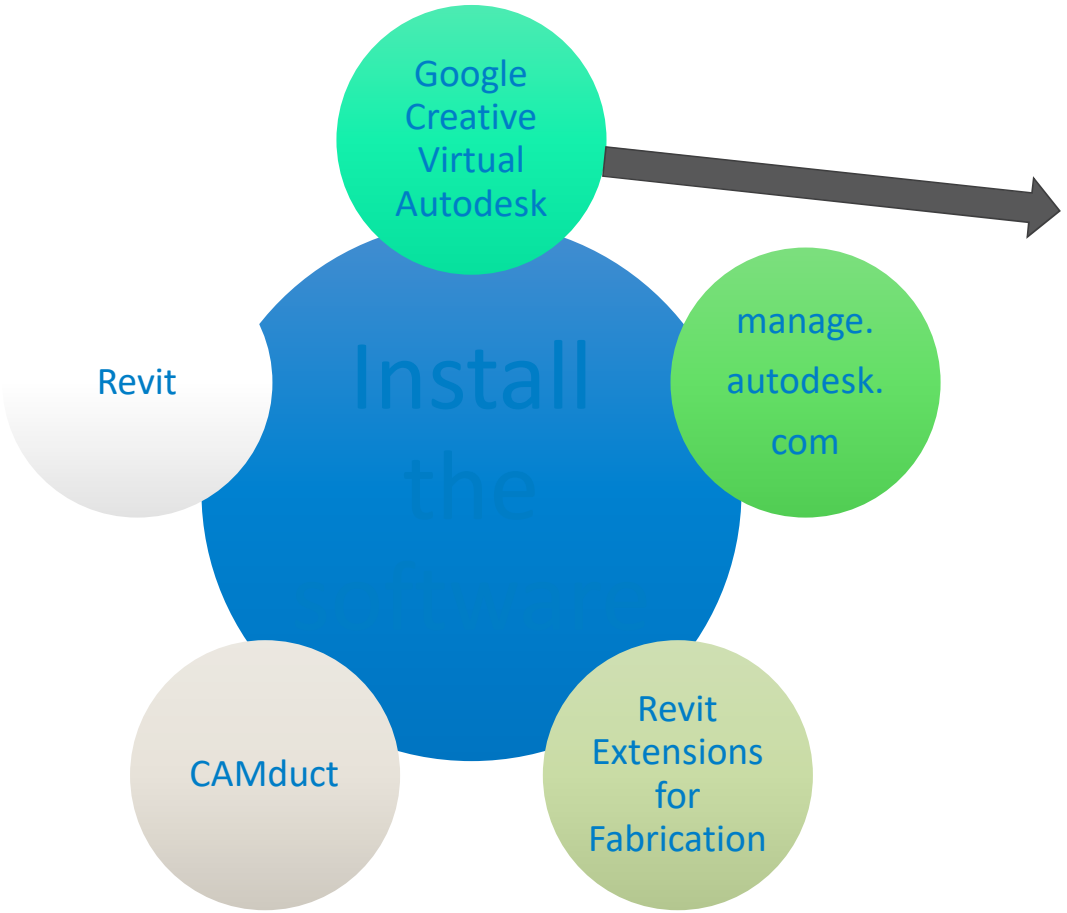
Class Objectives

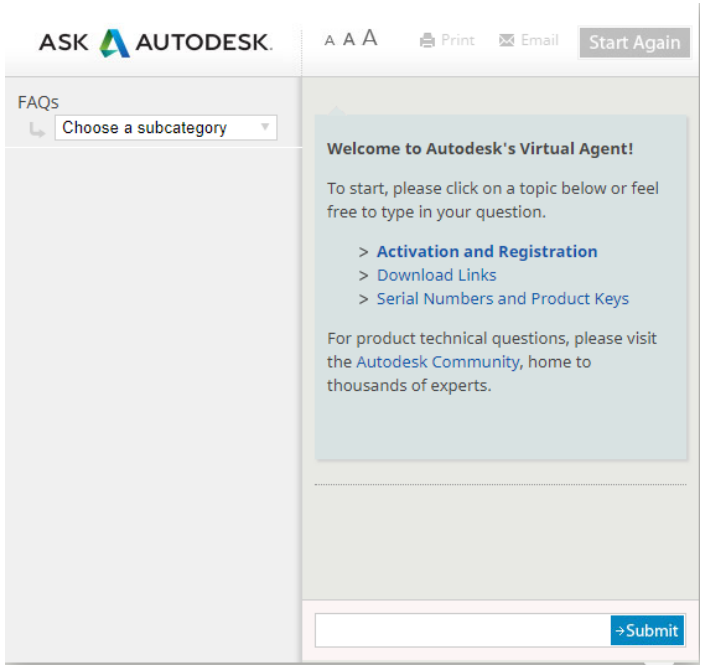
- Learn how to convert design ductwork to fabrication ductwork
- Learn how to identify bottlenecks and resolve issues with the conversion process
- Learn how to edit fabrication duct work in multiple products
- Learn how to create CNC data for export to your favorite cutting table

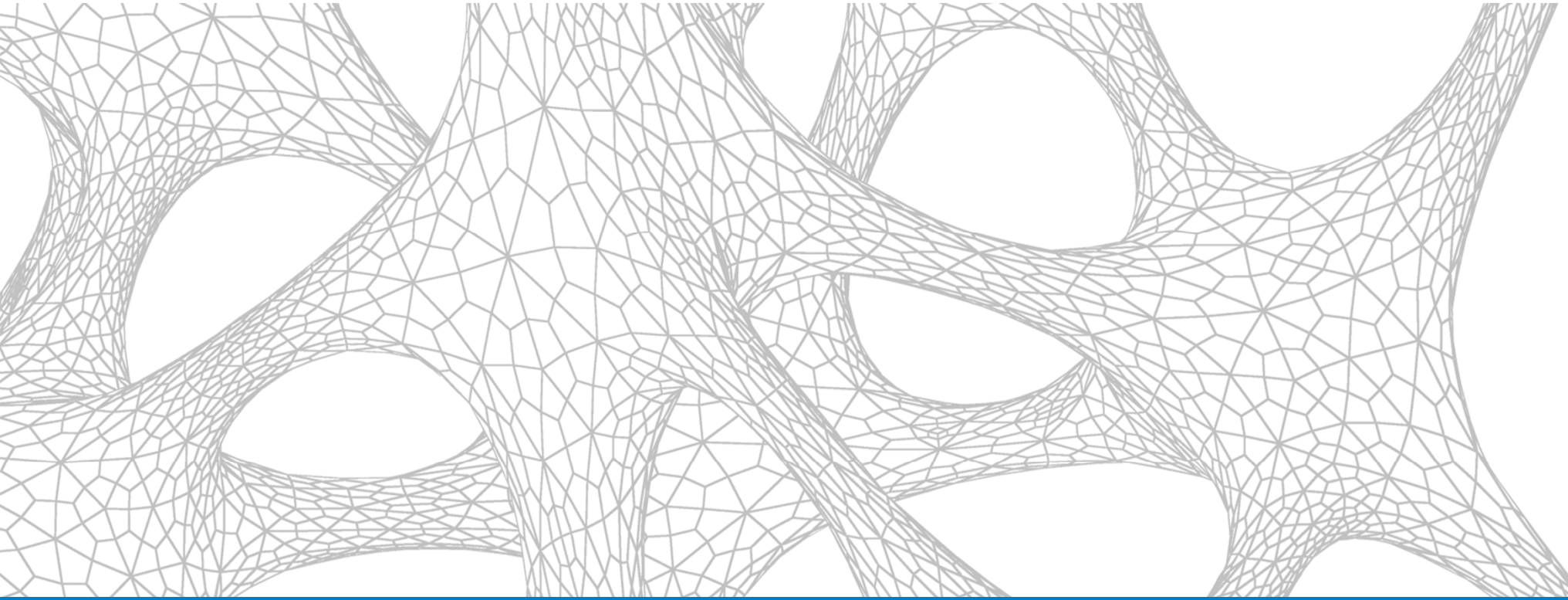


Getting Started

Getting Started







Converting Design to Fabrication

Requirements

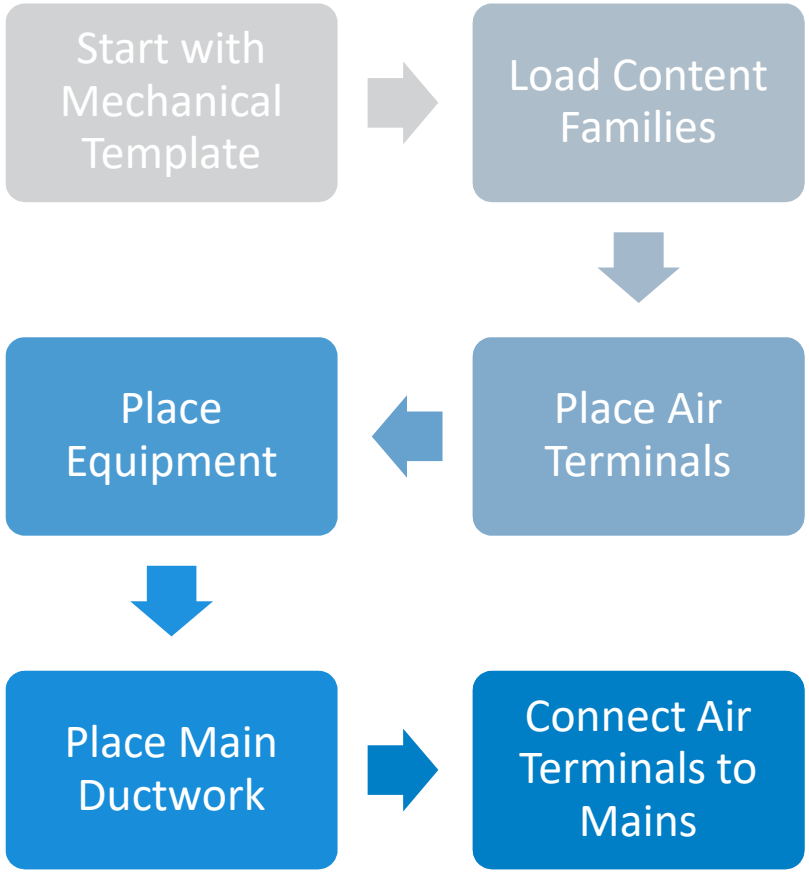
Accurate Design Model

Fabrication configuration

Fabrication service

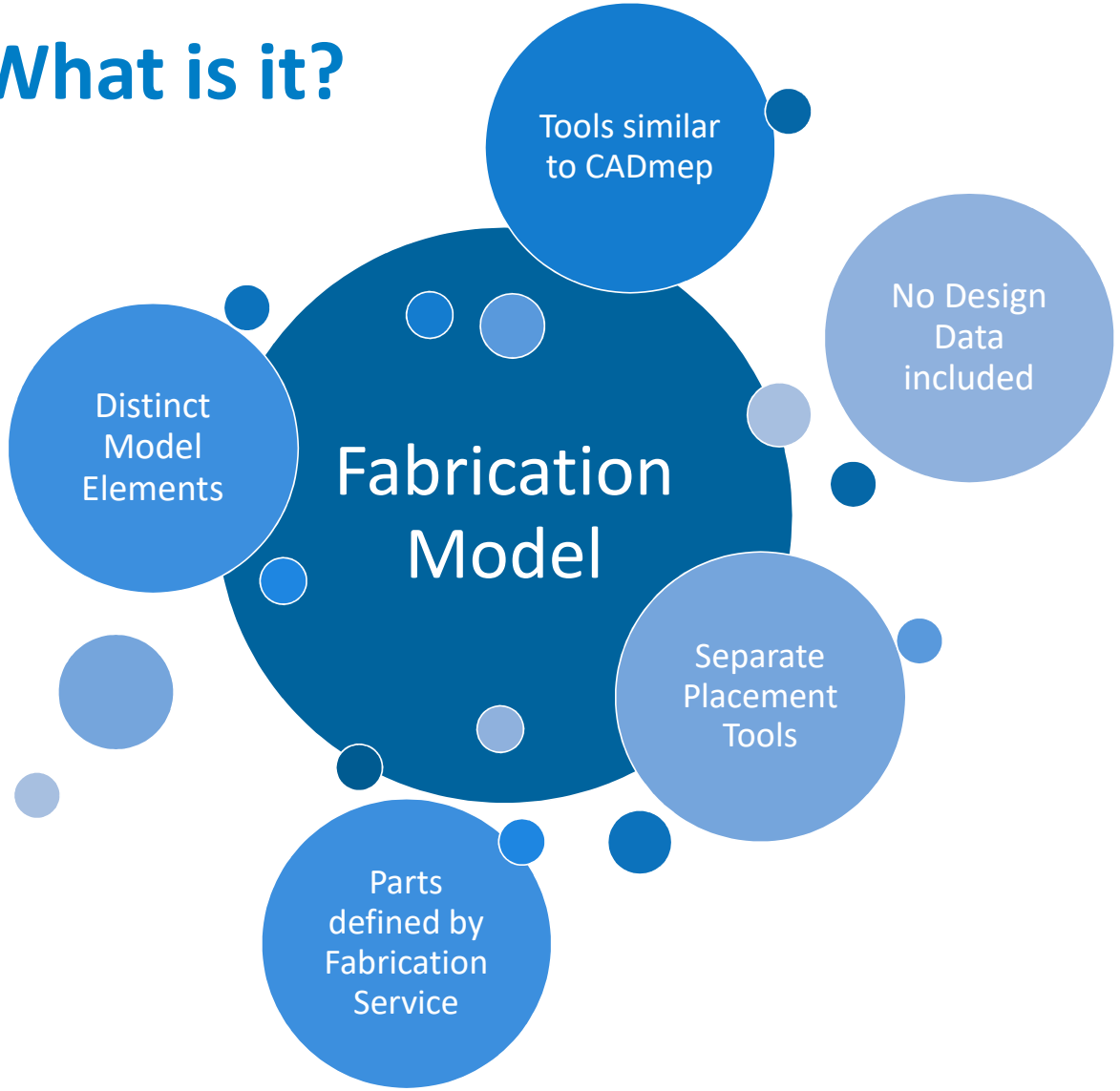
Part Mapping

Creating a Revit Design Model

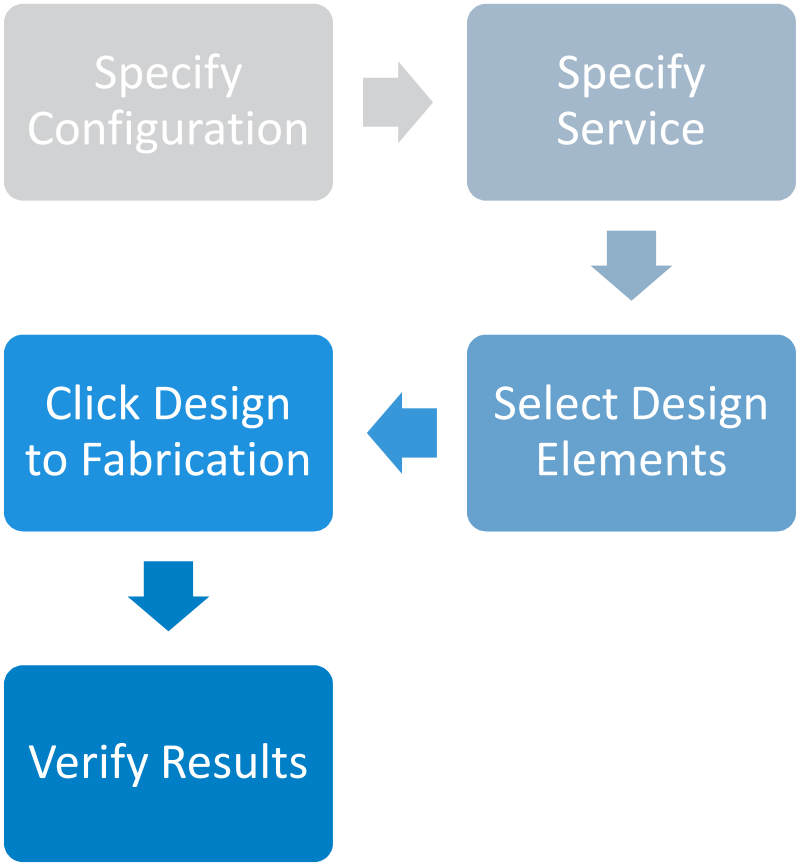


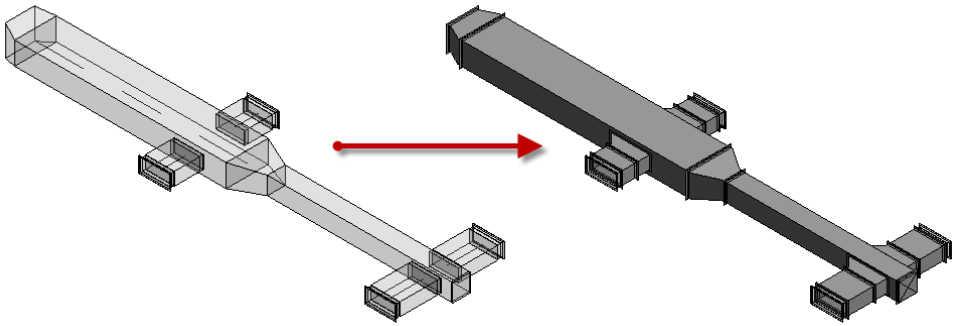
Open the Example File I have provided

Revit Fabrication, What is it?



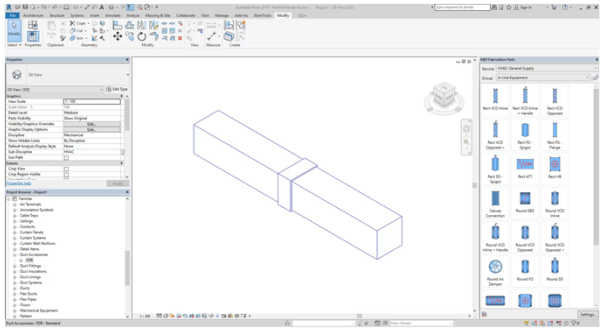
Converting Design to Fabrication

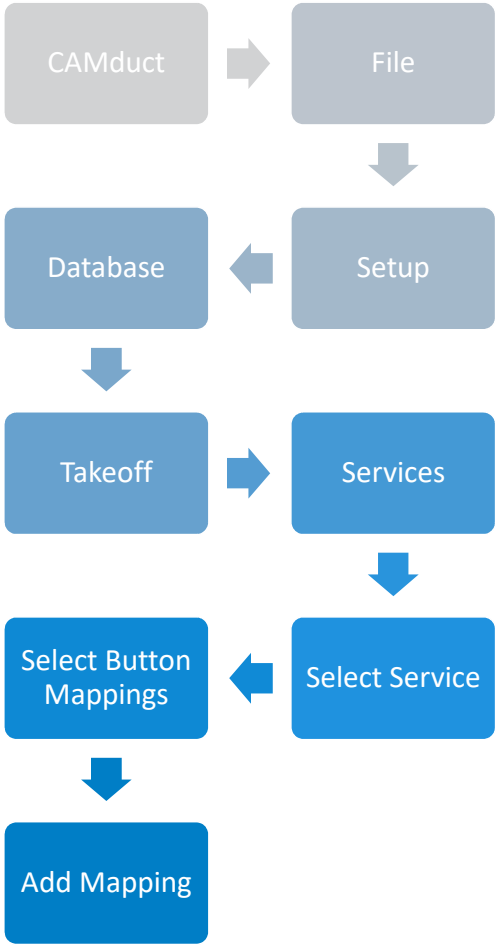




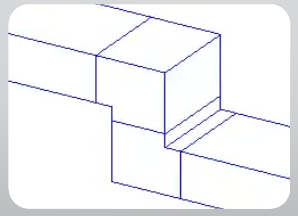
Converting Everything

Button Mappings



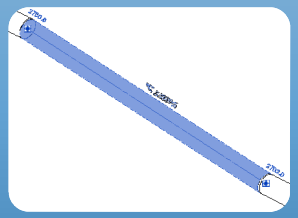


Limitations



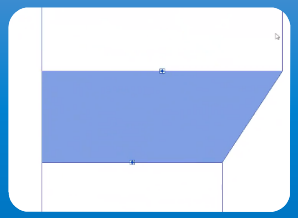
Back to Back Fittings

- Elbow to Elbow
- Elbow into Transition



Sloped Elements

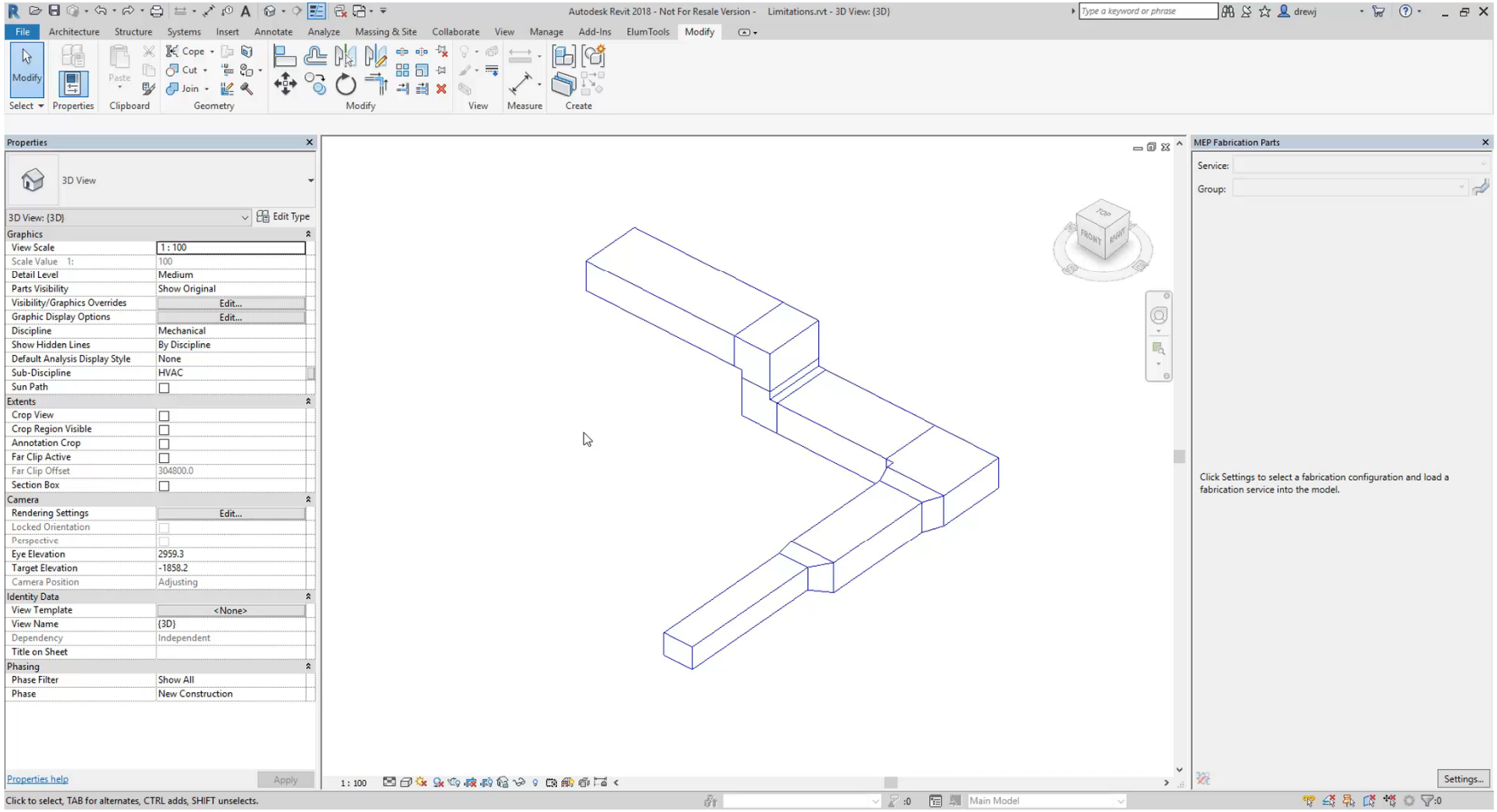
- More common to Piping



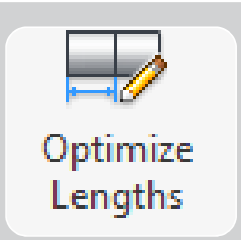
Eccentric Connections

- Not Concentric

Limitations



Additional Tools

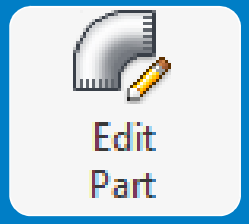


Optimize Lengths

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

Auto-Route from Point to Point

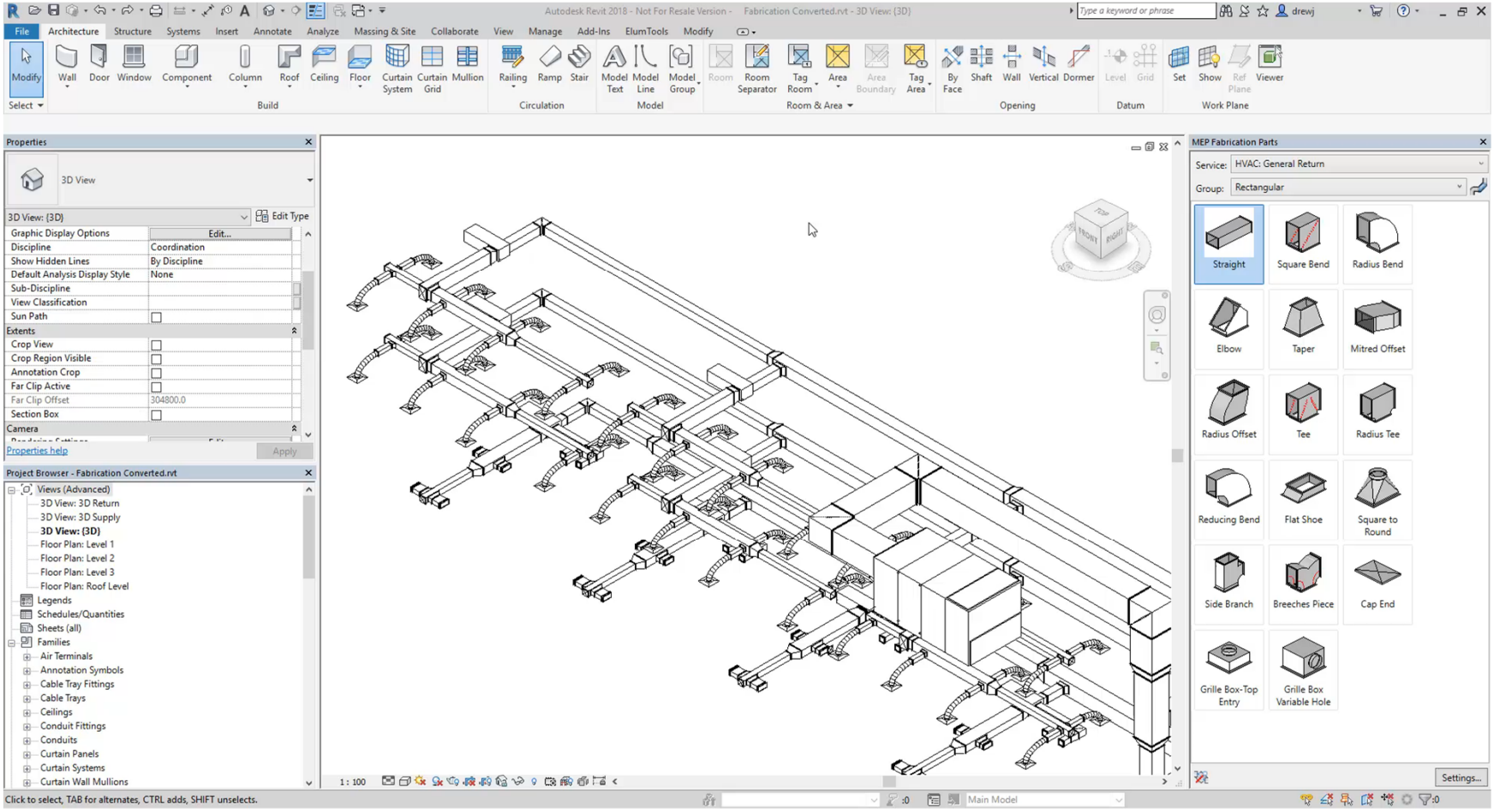
- Pick a Fabrication Part then start command
- Handles max of 2 changes in direction



Edit Part

- Change dimensions of Part
- Modify Connectors

Additional Tool Videos



Creating Fabrication Elements in Revit

Revit has Fabrication Parts Built Into It

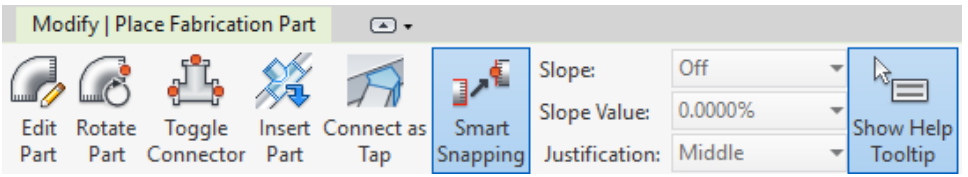
Tool Available on Systems Tab

Select Configuration and Service

Click and Place Parts

Multi-Point Available

Can be Scheduled



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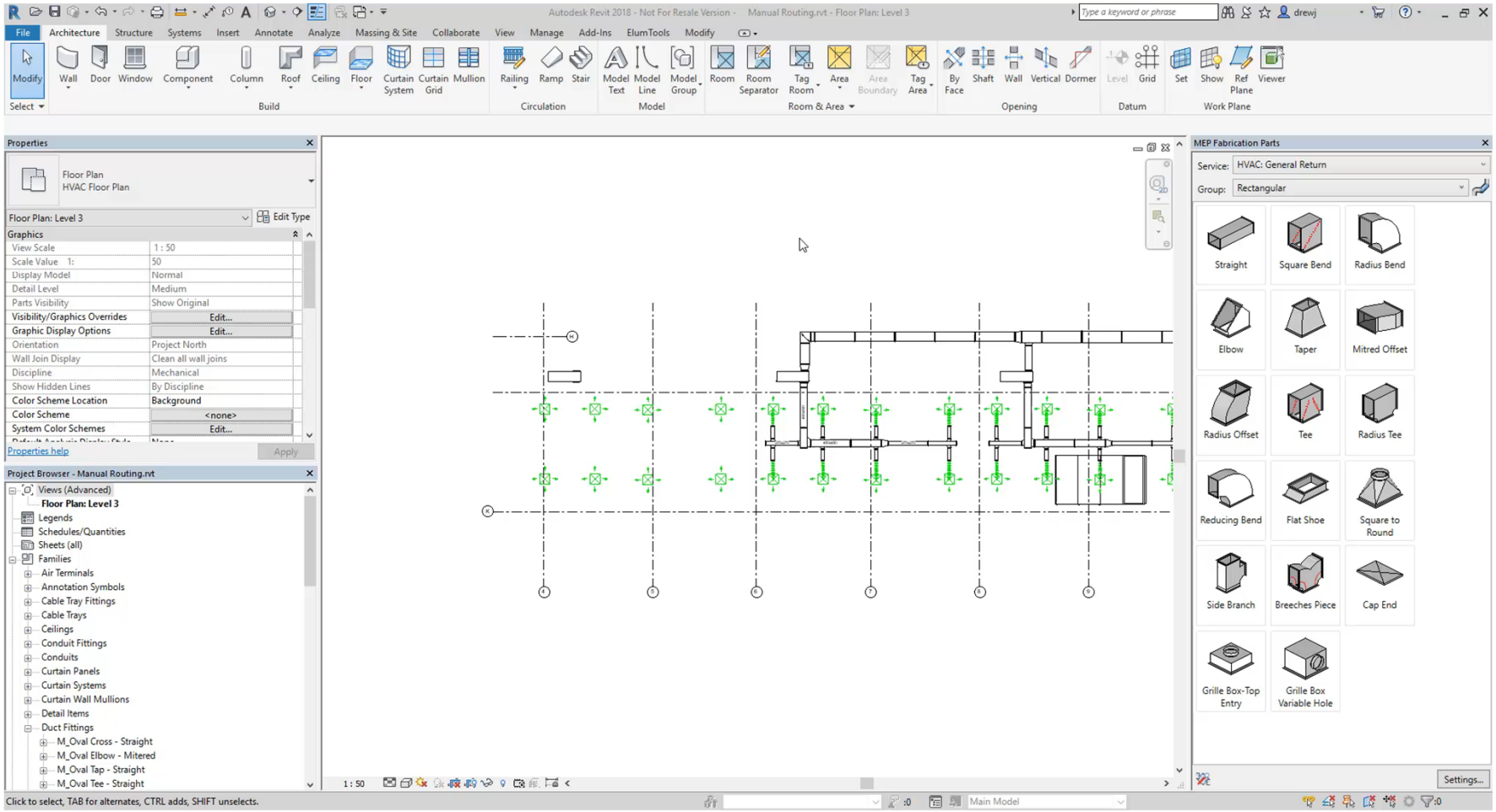


Transfer Fabrication Elements to CAMduct

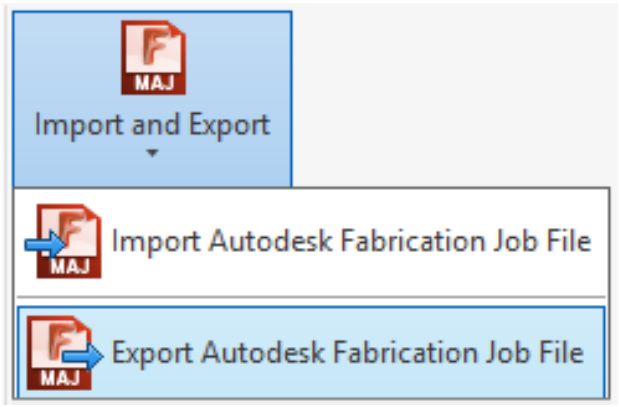
Install Revit Extensions for Fabrication

Select the Fabrication elements

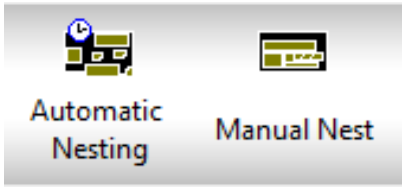
Export Fabrication Job File

Open CAMduct

Open Job (MAJ)

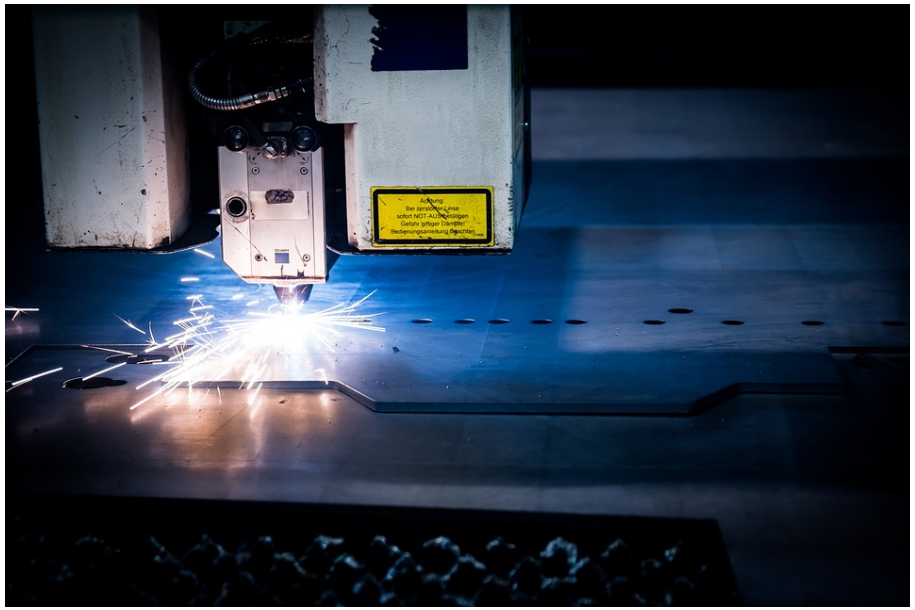


CAMduct Nesting



Desktop or Cloud → Desktop, Automatic or Manual → Cloud has been deprecated

Create CNC



Setup Installed Machines

Select Controller

Utilities -> Write NC

Utilities -> View NC

AUTODESK®

Make anything.