Product Design & Manufacturing Collection.

What’s new 2019

Lars Nyström

Technical Sales Specialist Autodesk – Northern Europe

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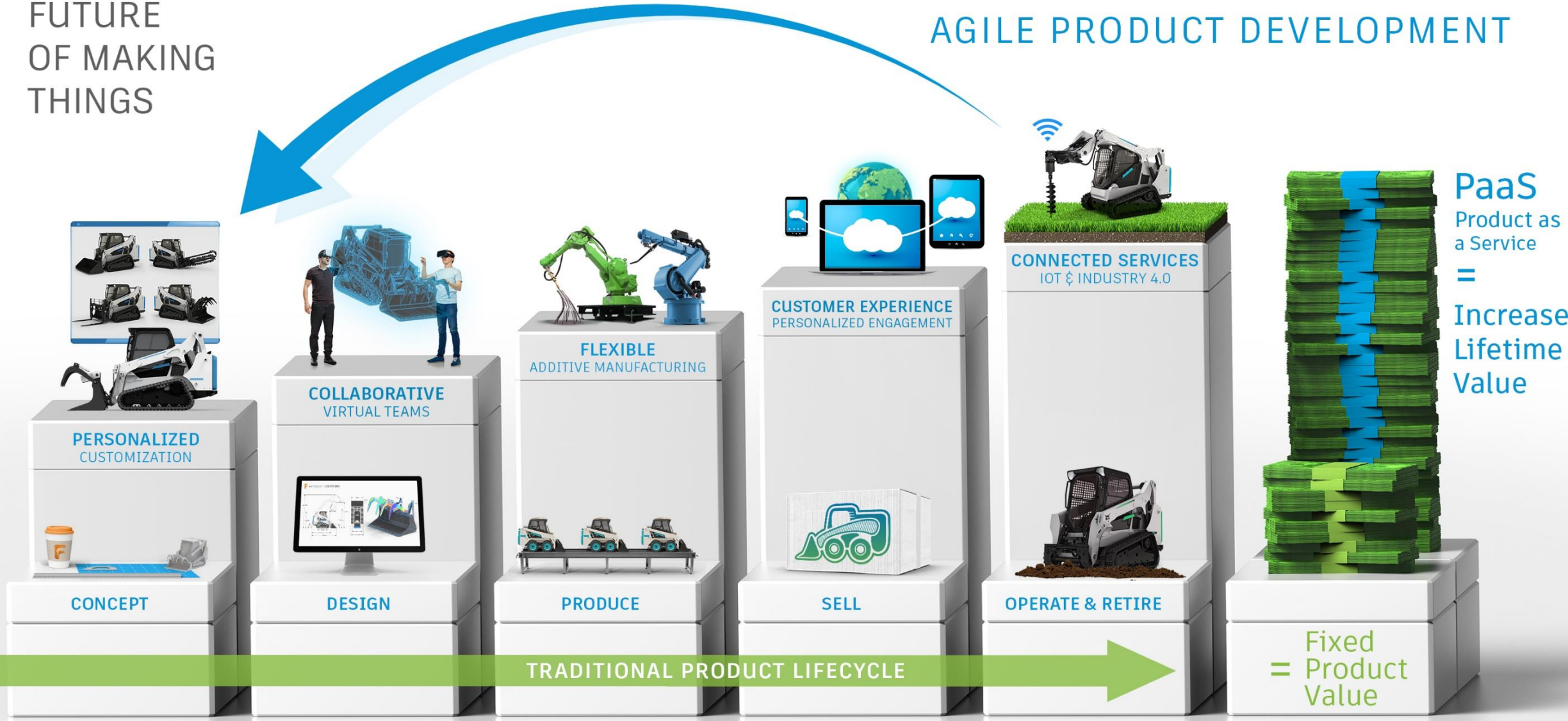
THE FUTURE OF MAKING THINGS

AGILE PRODUCT DEVELOPMENT



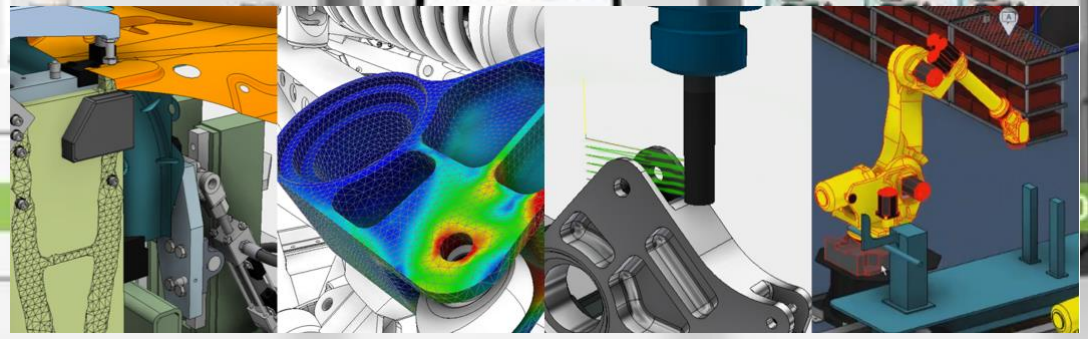
THE FUTURE OF MAKING THINGS

AUTODESK® PRODUCT DESIGN & MANUFACTURING COLLECTION

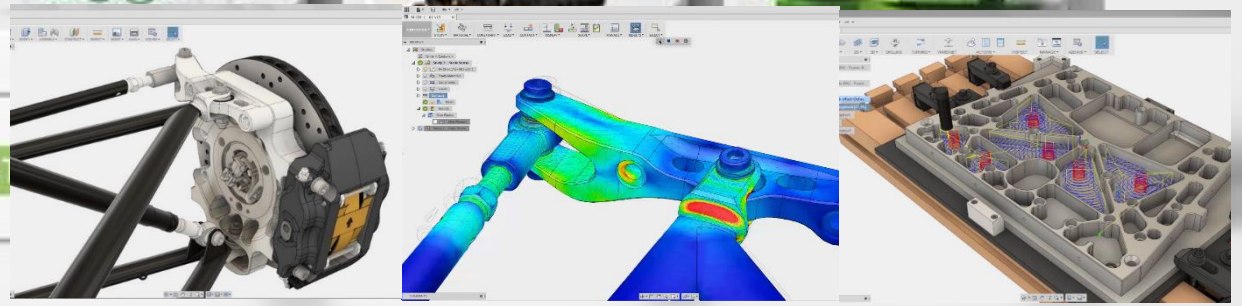
ACCELERATED PRODUCT DEVELOPMENT

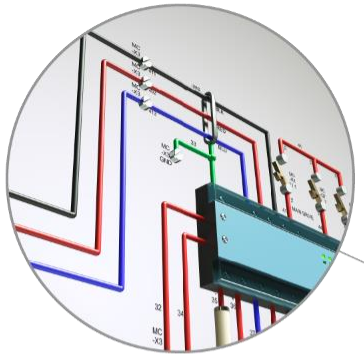
PaaS
Product as a Service
=
Increased Lifetime Value

AUTODESK® INVENTOR®



AUTODESK® FUSION 360™





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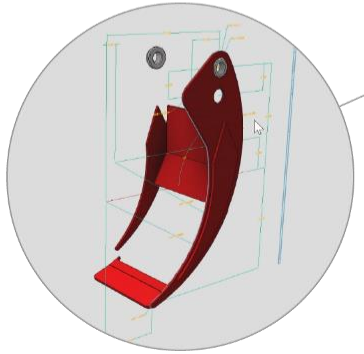
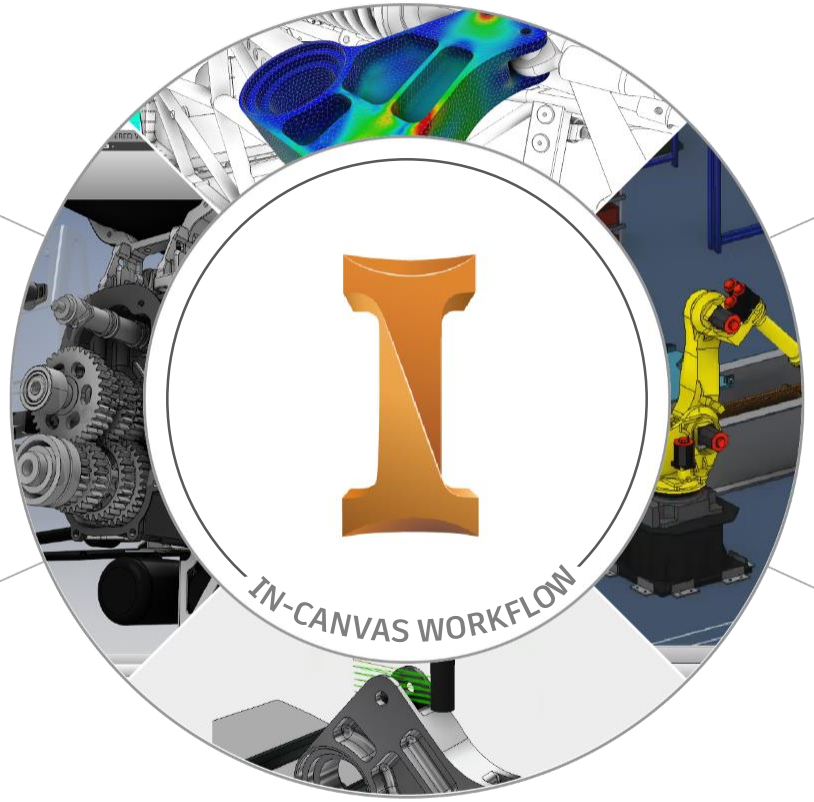
2D TO 3D INTEROPABILITY





REALITY CAPTURE

LARGE SCALE DESIGN REVIEW

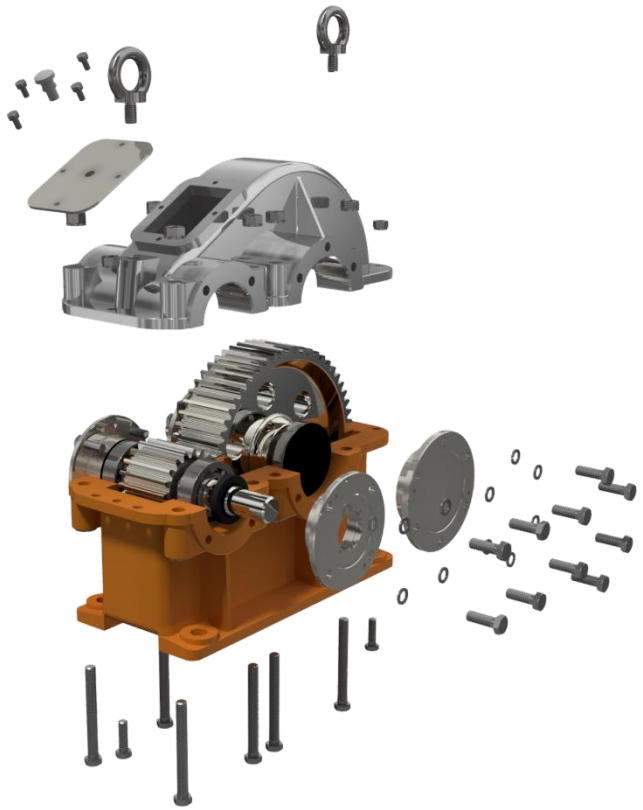
ASSOCIATIVE WORKFLOWS WITH COMPLIMENTARY APPLICATIONS

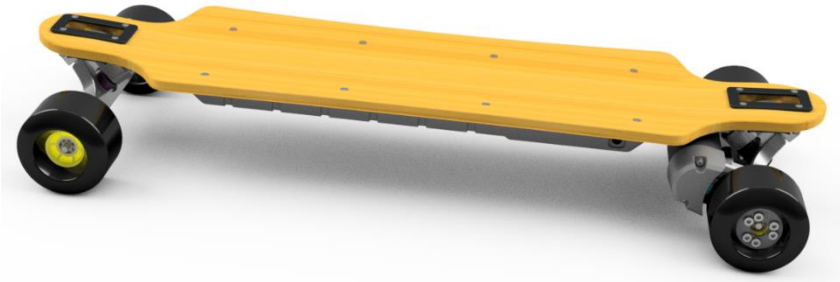
AUTODESK.

AUTODESK.

PRODUCT
DESIGN & MFG
COLLECTION
PRODUCT
DESIGN & MFG
COLLECTION
Mar 2016
Jul 2016
Aug 2016
Nov 2016
Mar 2017
July 2017
Aug 2017
Nov 2017

Inventor 2019





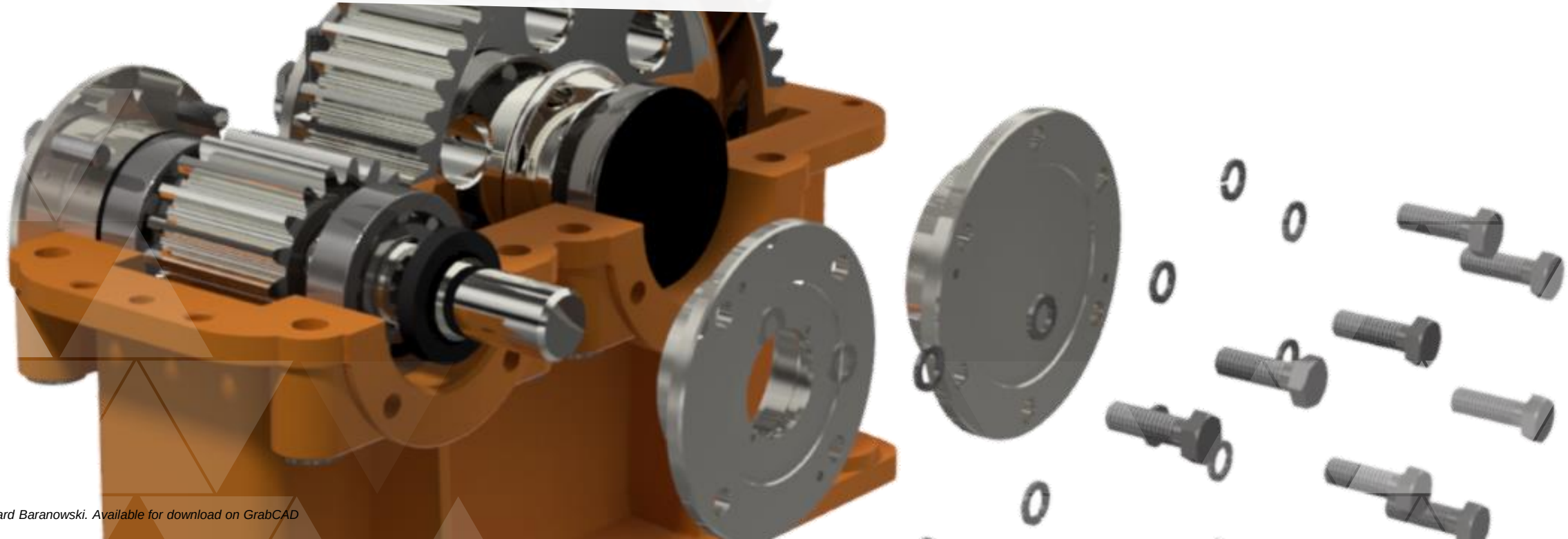
PROFESSIONAL GRADE

CONNECTED

INVENTOR EXPERIENCE

AUTODESK.

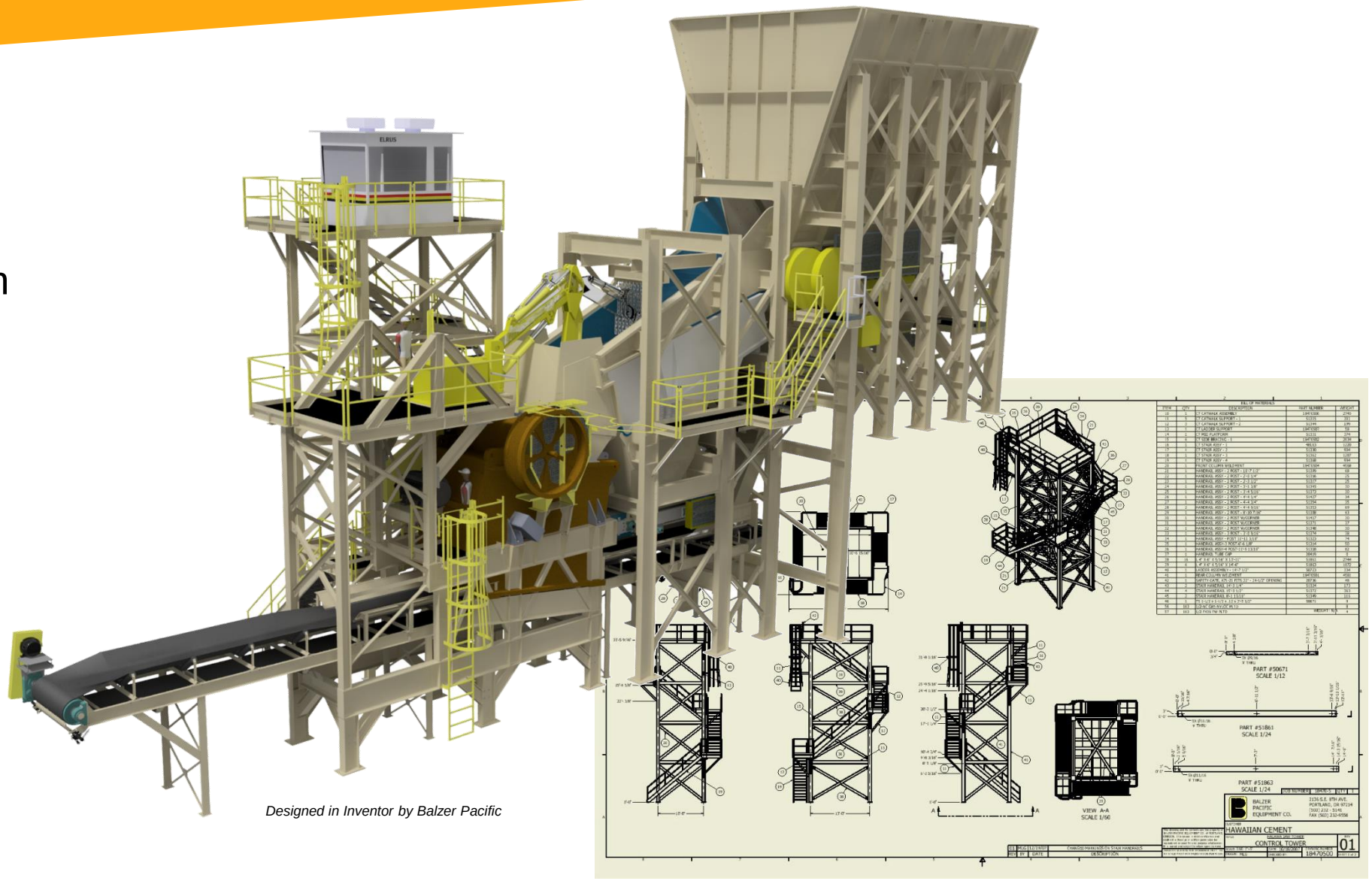
Professional Grade



Designed in Inventor by Ryszard Baranowski. Available for download on GrabCAD

Performance

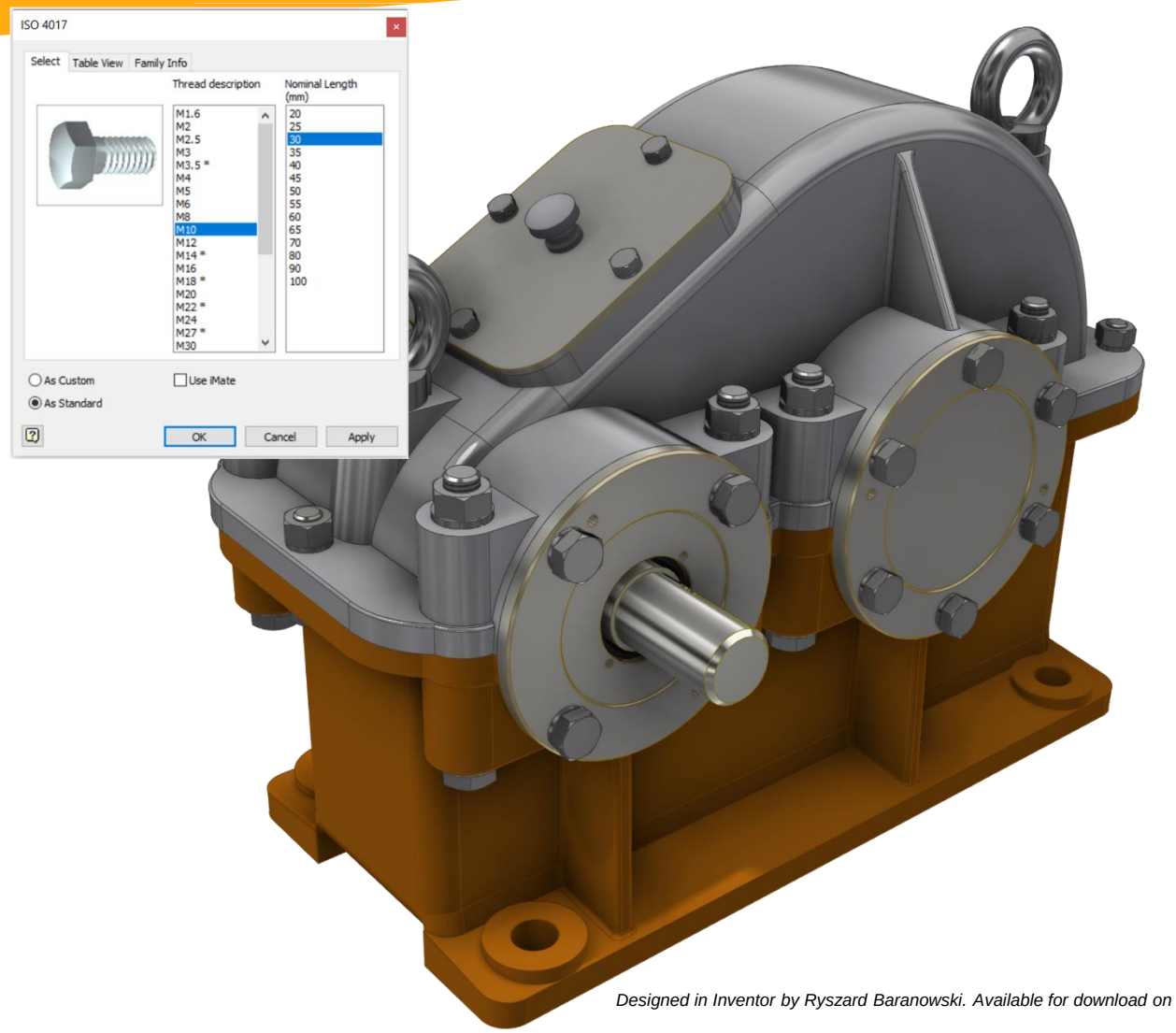
- Assemblies
  - Editing
  - Updates
  - Pattern Selection
- Drawings
  - View Creation
  - Updates
  - Navigation



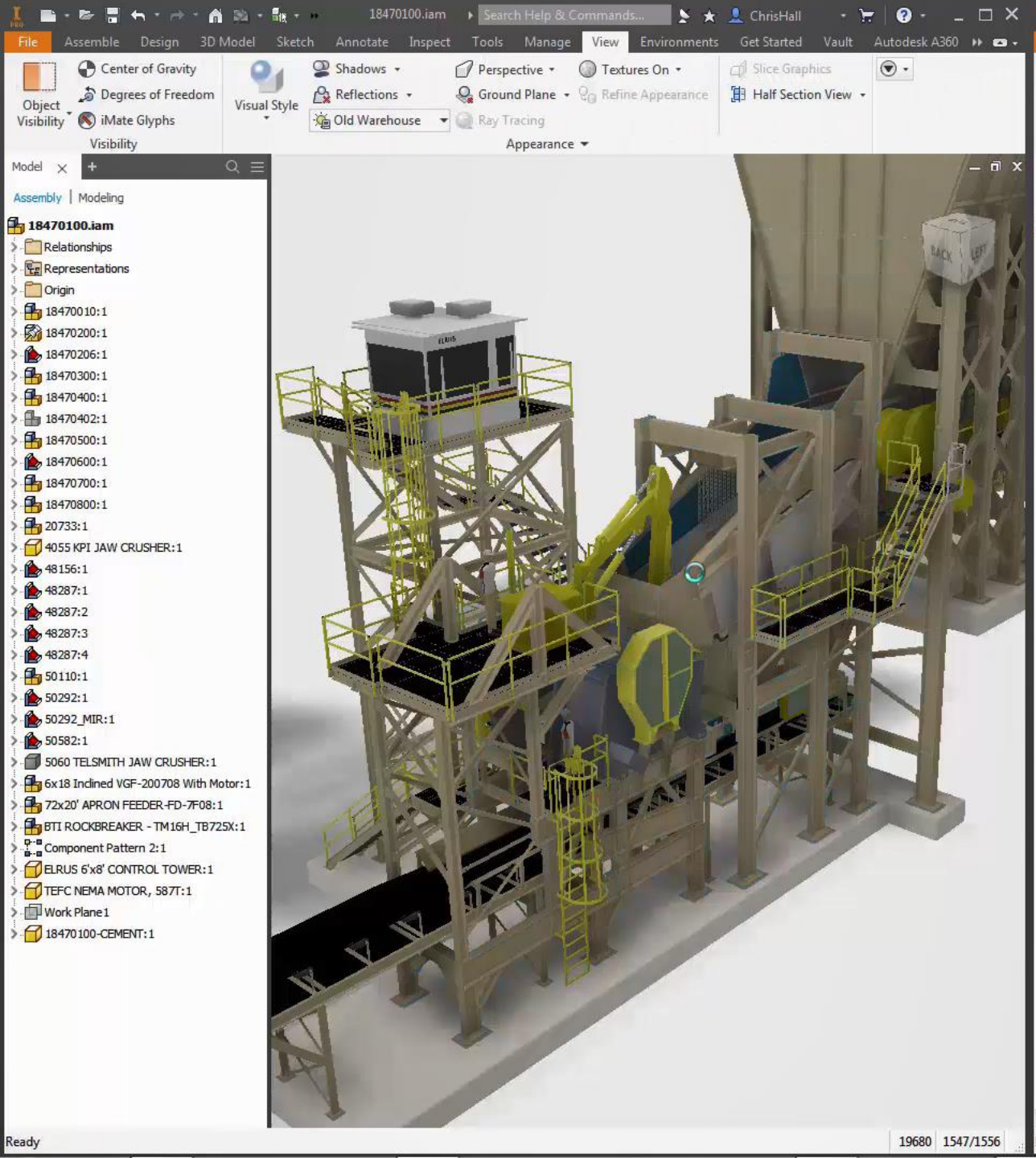
Designed in Inventor by Balzer Pacific

Performance

- General
  - Display of Threads
  - Mouse Wheel Zoom
- Content Center
  - In-Memory Caching



Designed in Inventor by Ryszard Baranowski. Available for download on GrabCAD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ChrisHall
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Assemble
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Environments
Get Started
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Autodesk A360
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Center of Gravity
Degrees of Freedom
iMate Glyphs
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20733:1
4055 KPI JAW CRUSHER:1
48156:1
48287:1
48287:2
48287:3
48287:4
50110:1
50292:1
50292_MIR:1
50582:1
5060 TELSMITH JAW CRUSHER:1
6x18 Inclined VGF-200708 With Motor:1
72x20' APRON FEEDER-FD-7F08:1
BTI ROCKBREAKER - TM16H_TB725X:1
Component Pattern 2:1
ELRUS 6'x8' CONTROL TOWER:1
TEFC NEMA MOTOR, 587T:1
Work Plane1
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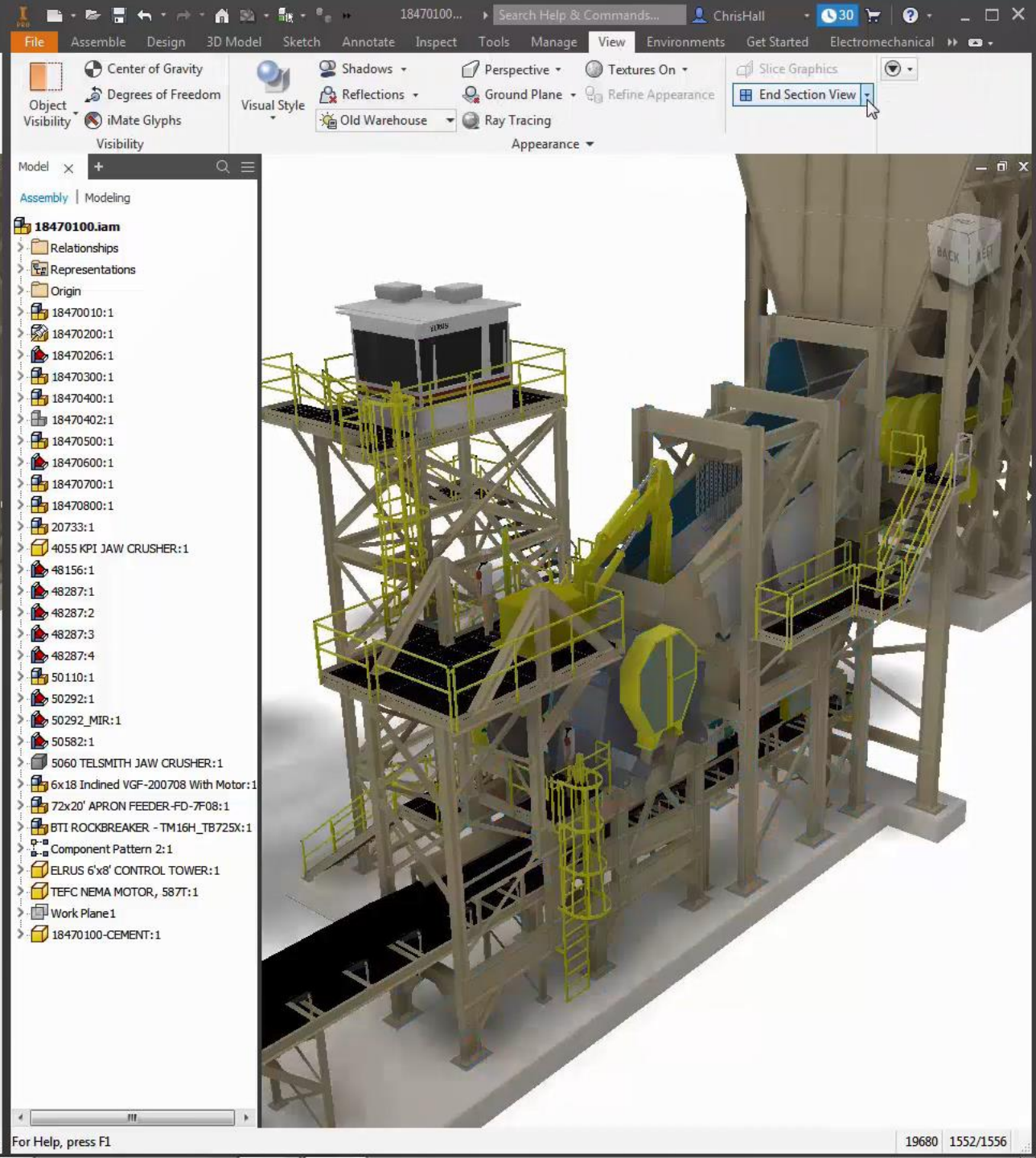
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File
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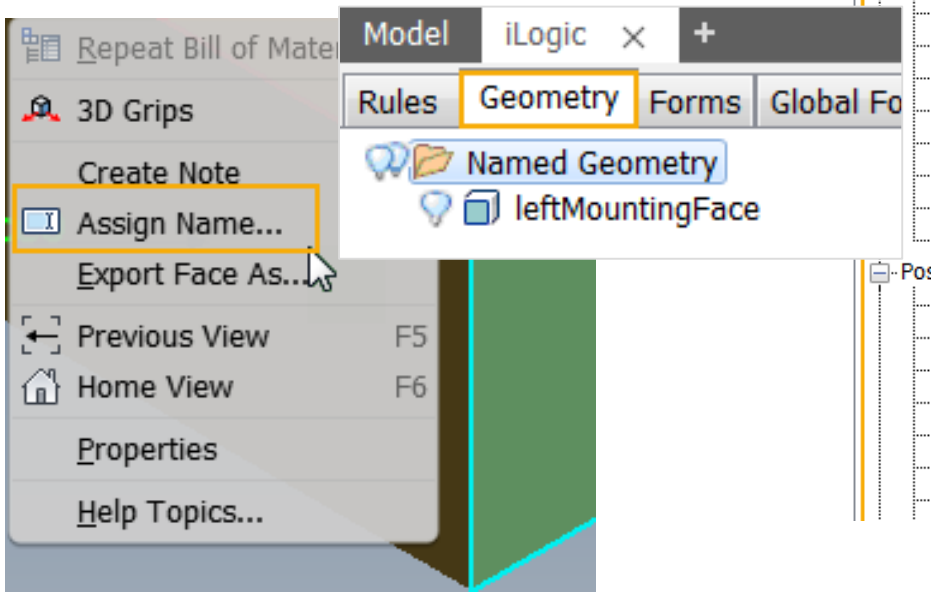
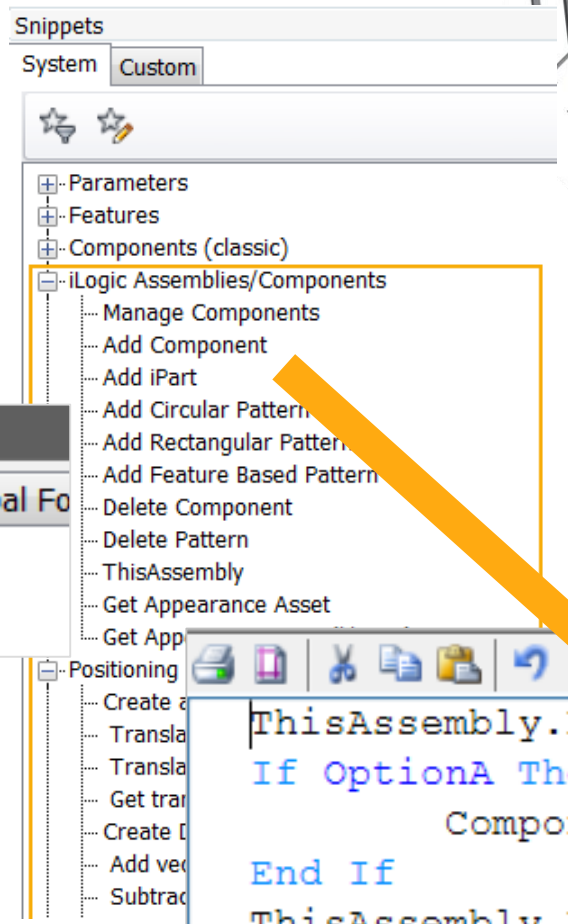
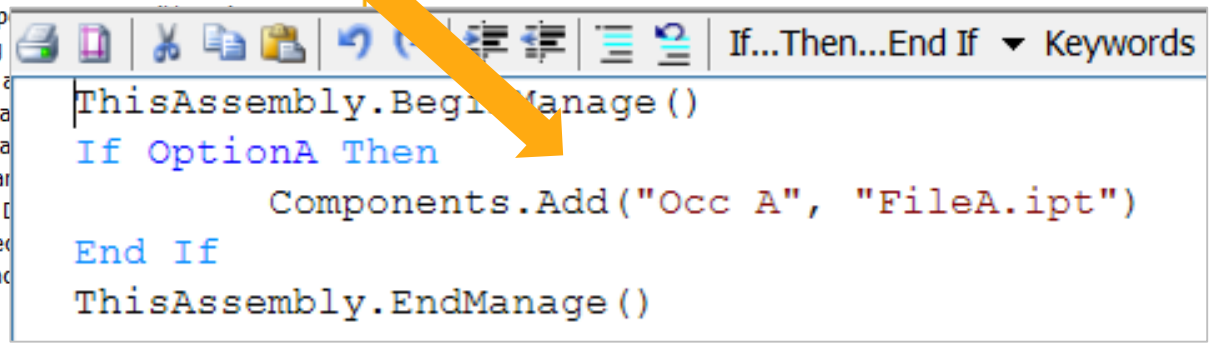
Component Pattern 2:1
ELRUS 6'x8' CONTROL TOWER:1
TEFC NEMA MOTOR, 587T:1
Work Plane1
18470100-CEMENT:1
For Help, press F1
19680
1552/1556

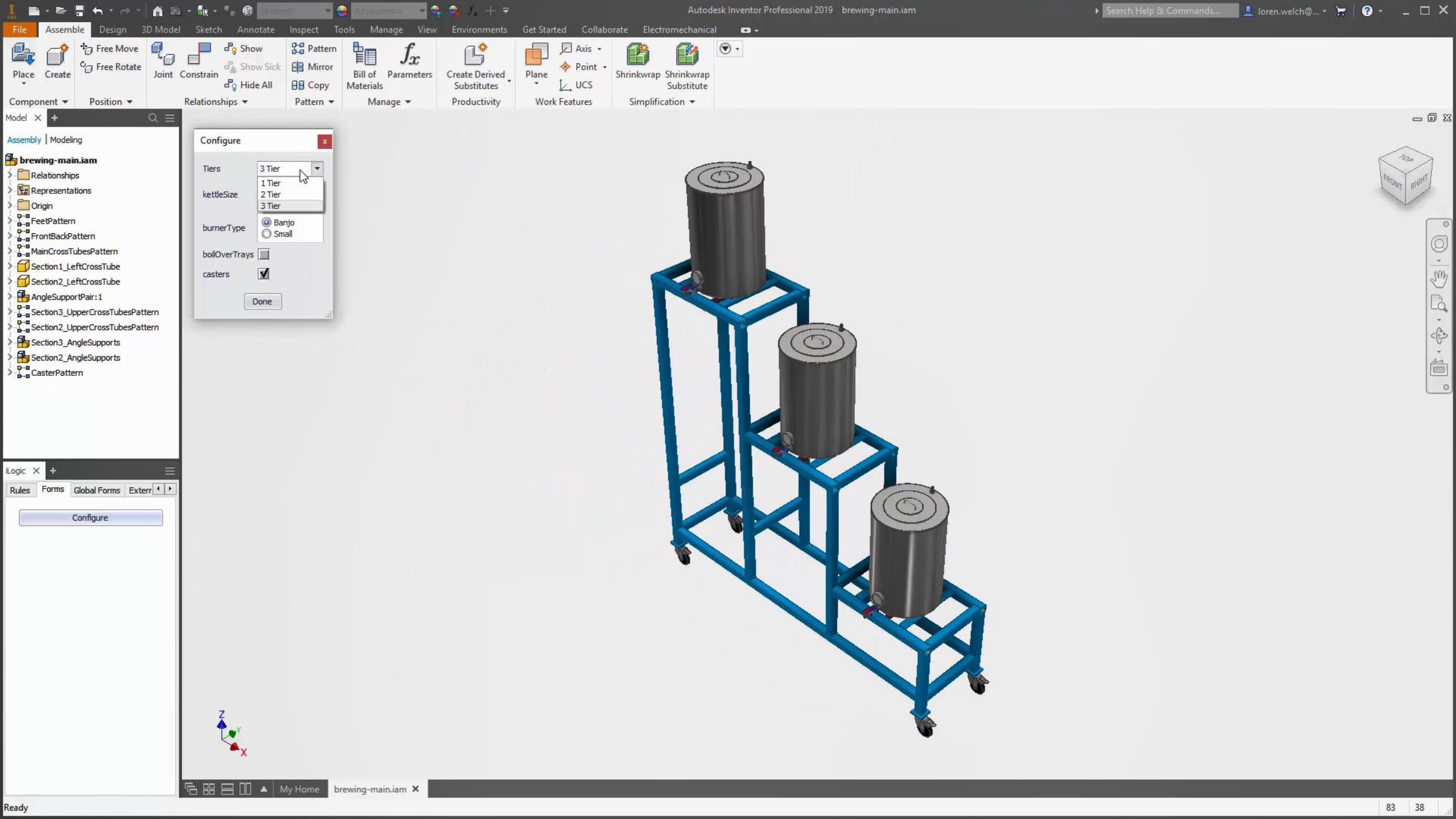
iLogic

- Component and Management
  - Add/Delete Parts
  - Add/ Delete Assemblies
  - Add/Delete Constraints
- Capture Current model state
- Assign Geometry Names





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Environments
Get Started
Collaborate
Electromechanical
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
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Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
Point
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Shrinkwrap
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Productivity
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Simplification
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Representations
Origin
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FrontBackPattern
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Section2_LeftCrossTube
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Section2_UpperCrossTubesPattern
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Done
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Forms
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Configure
TOP
FRONT
RIGHT
Z
Y
X
My Home
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Ready
83
38

Model Based Definition

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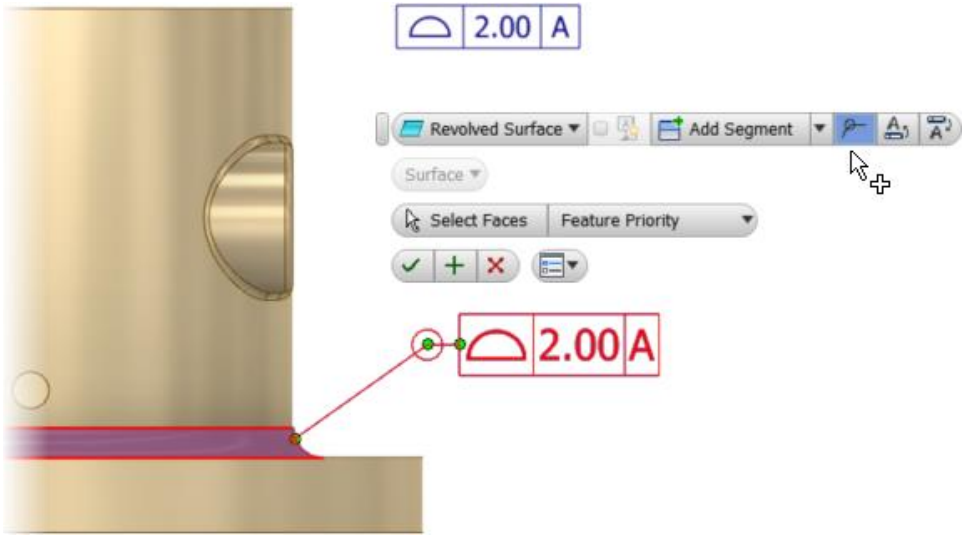
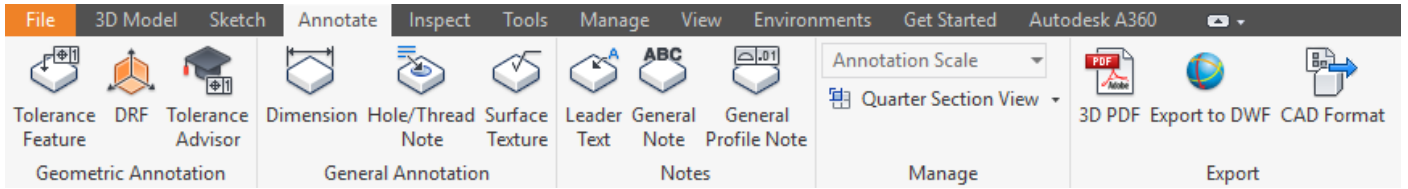
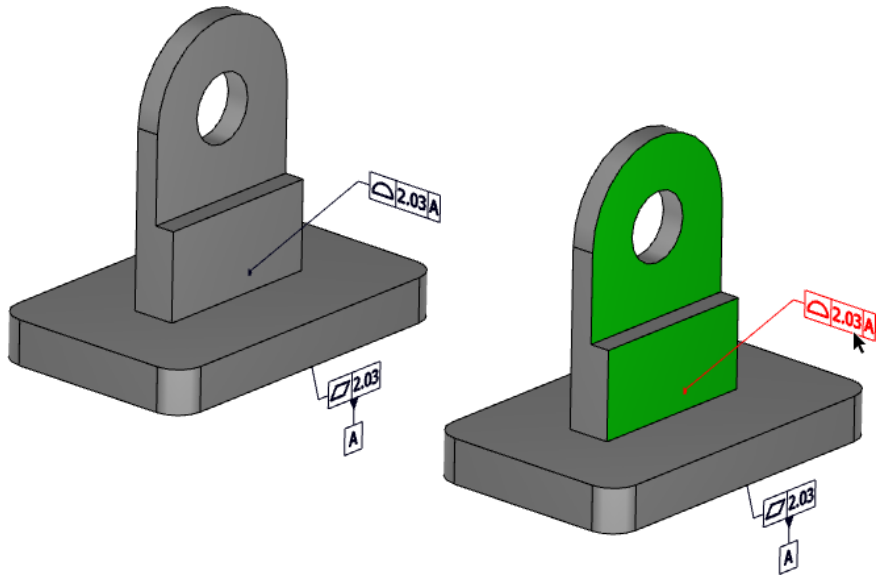
- New tolerance feature annotation
- 3D Annotations for Assemblies
- All-around symbol for Profile of a Surface.
- DWF Export
- 3D PDF export
  - Associative face highlight for tolerance annotations that reference multiple faces.





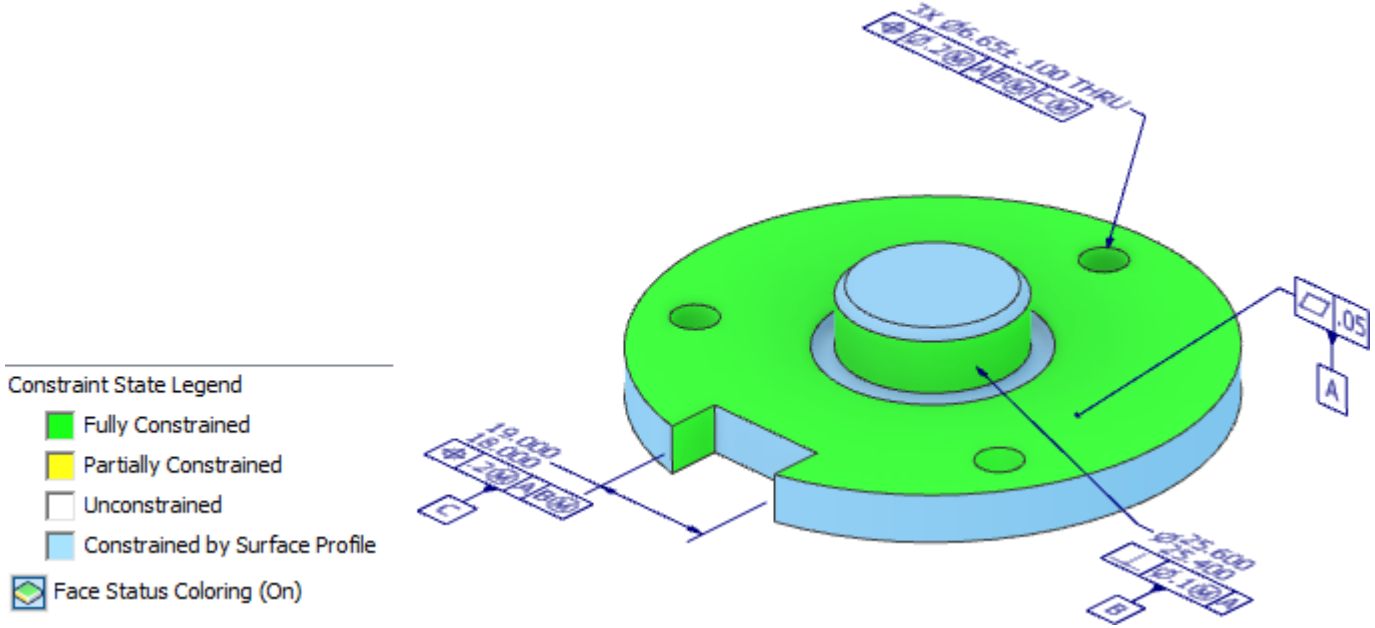


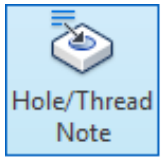
Ⓕ Ⓟ ST Ⓣ Ⓤ

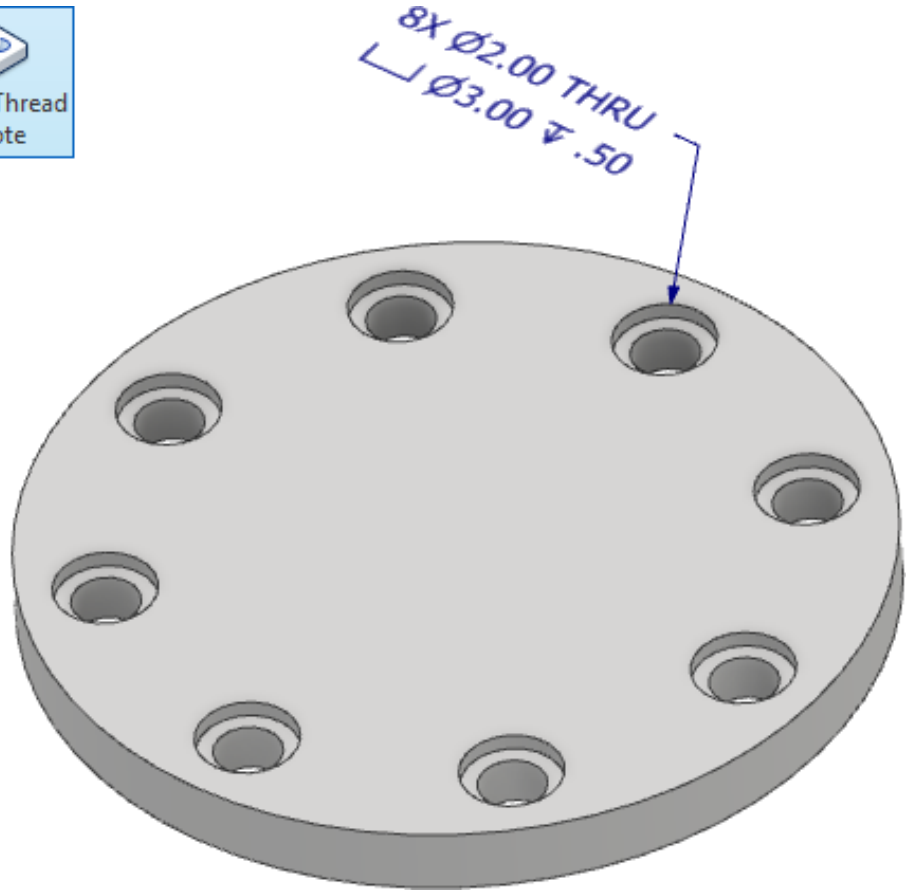
2018.1 **2018.2**

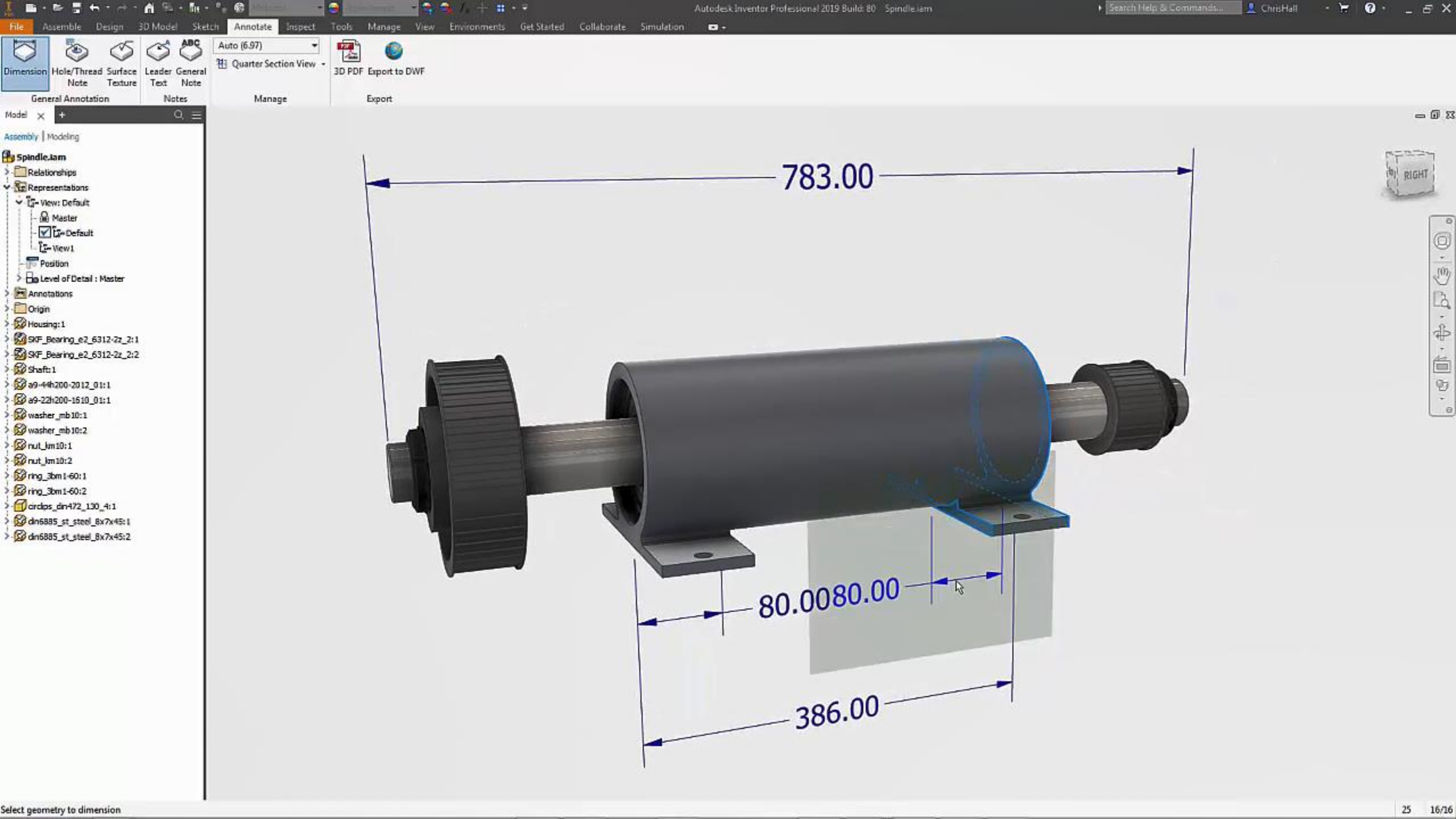
Model Based Definition

- Tolerance Advisor Face Status
- 3D Annotation Hole/Thread Quantity





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File Assemble Design 3D Model Sketch Annotate Inspect Tools Manage View Environments Get Started Collaborate Simulation
Dimension Hole/Thread Note Surface Texture Leader Text General Note
General Annotation Notes
Auto (6.97) Quarter Section View
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3D PDF Export to DWF
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Assembly | Modeling
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Relationships
Representations
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View1
Position
Level of Detail : Master
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Select geometry to dimension

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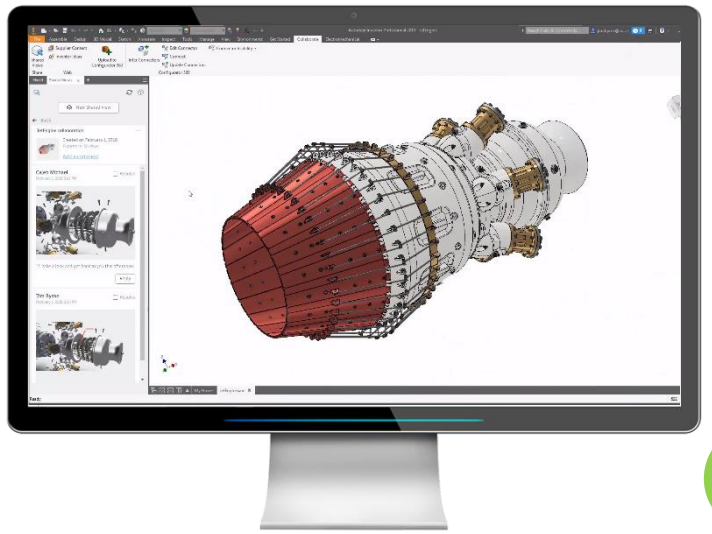
Connected

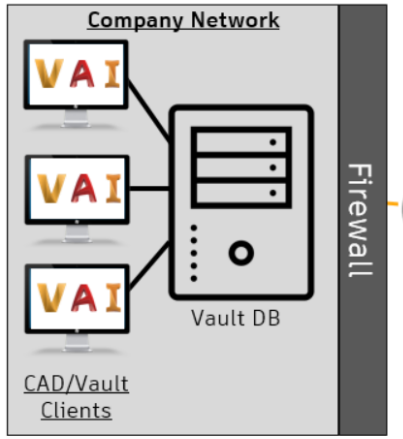
Designed in Inventor by Randy Wetzler. Available for download on GrabCAD

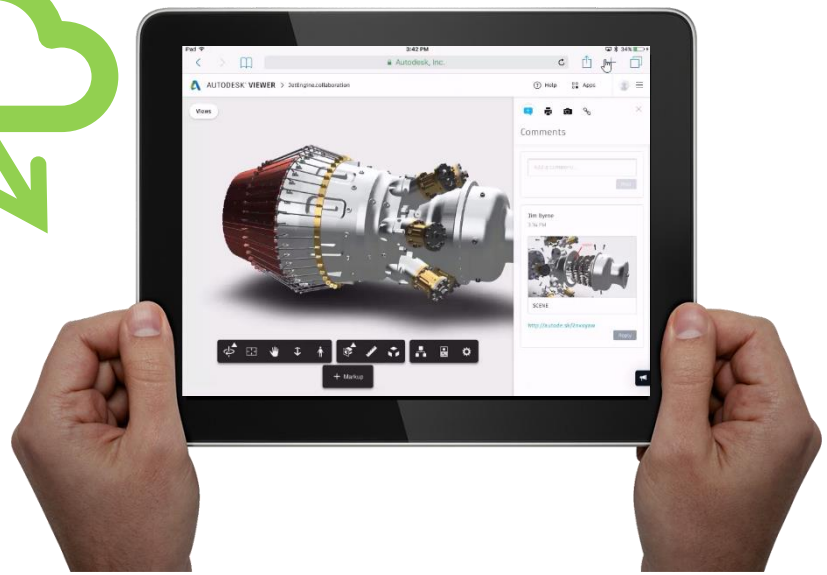
Collaboration

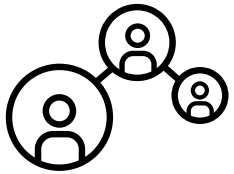
AUTODESK.



Shared View







Collaboration

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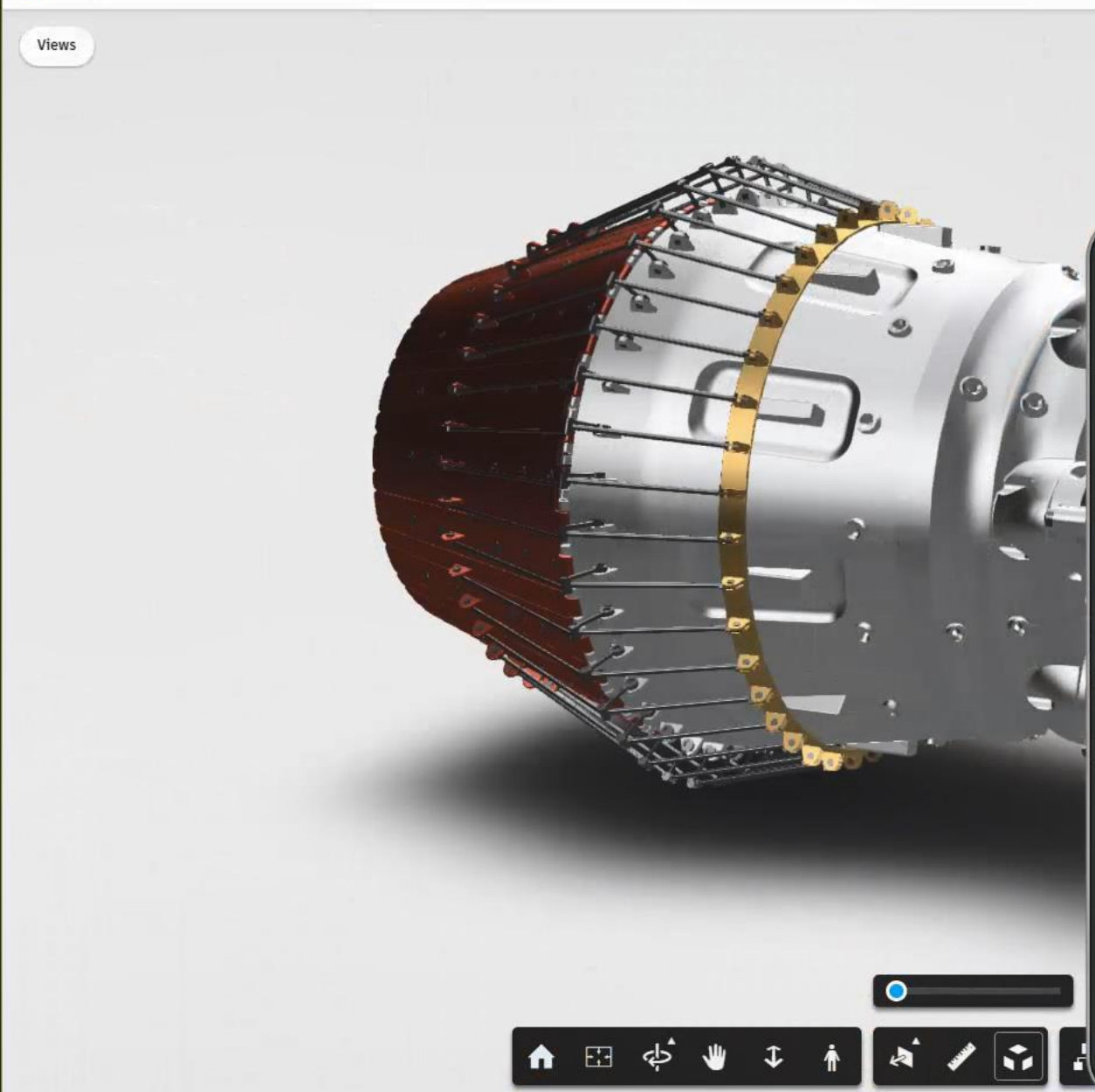
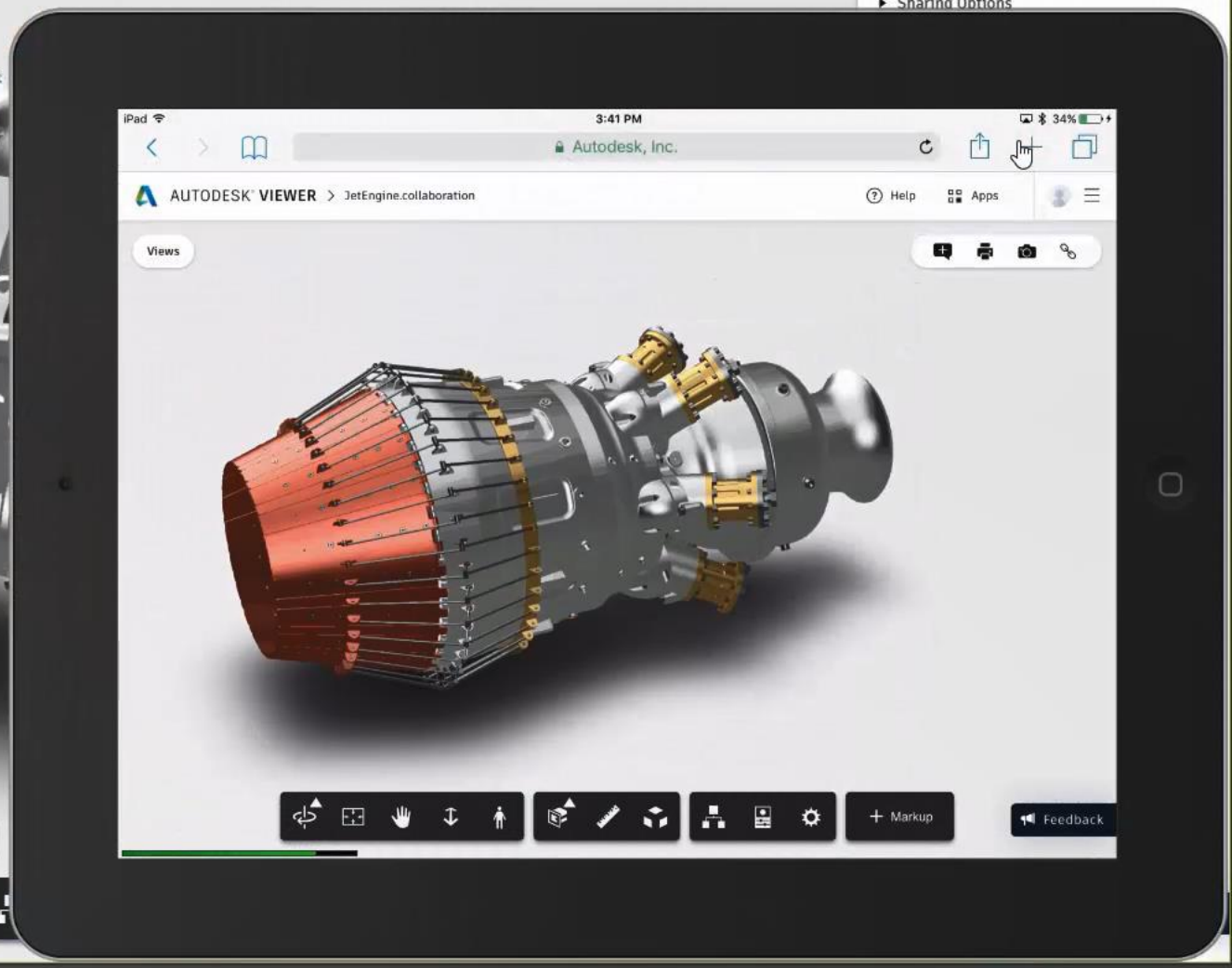
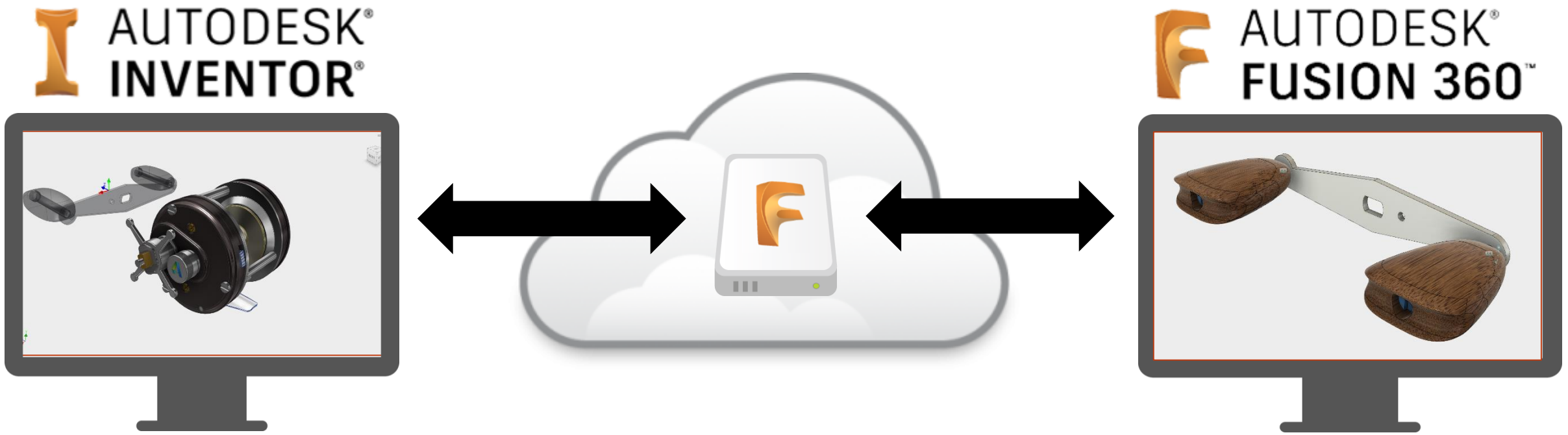
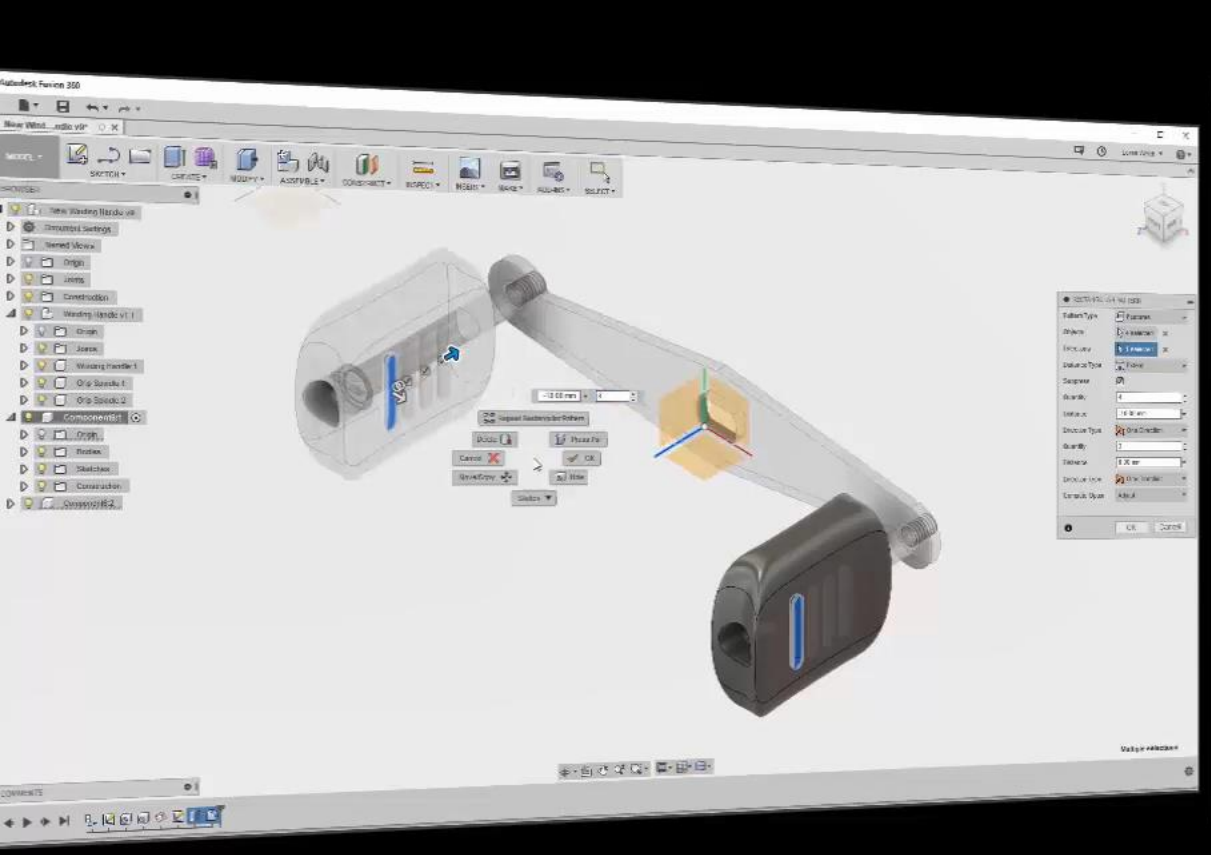
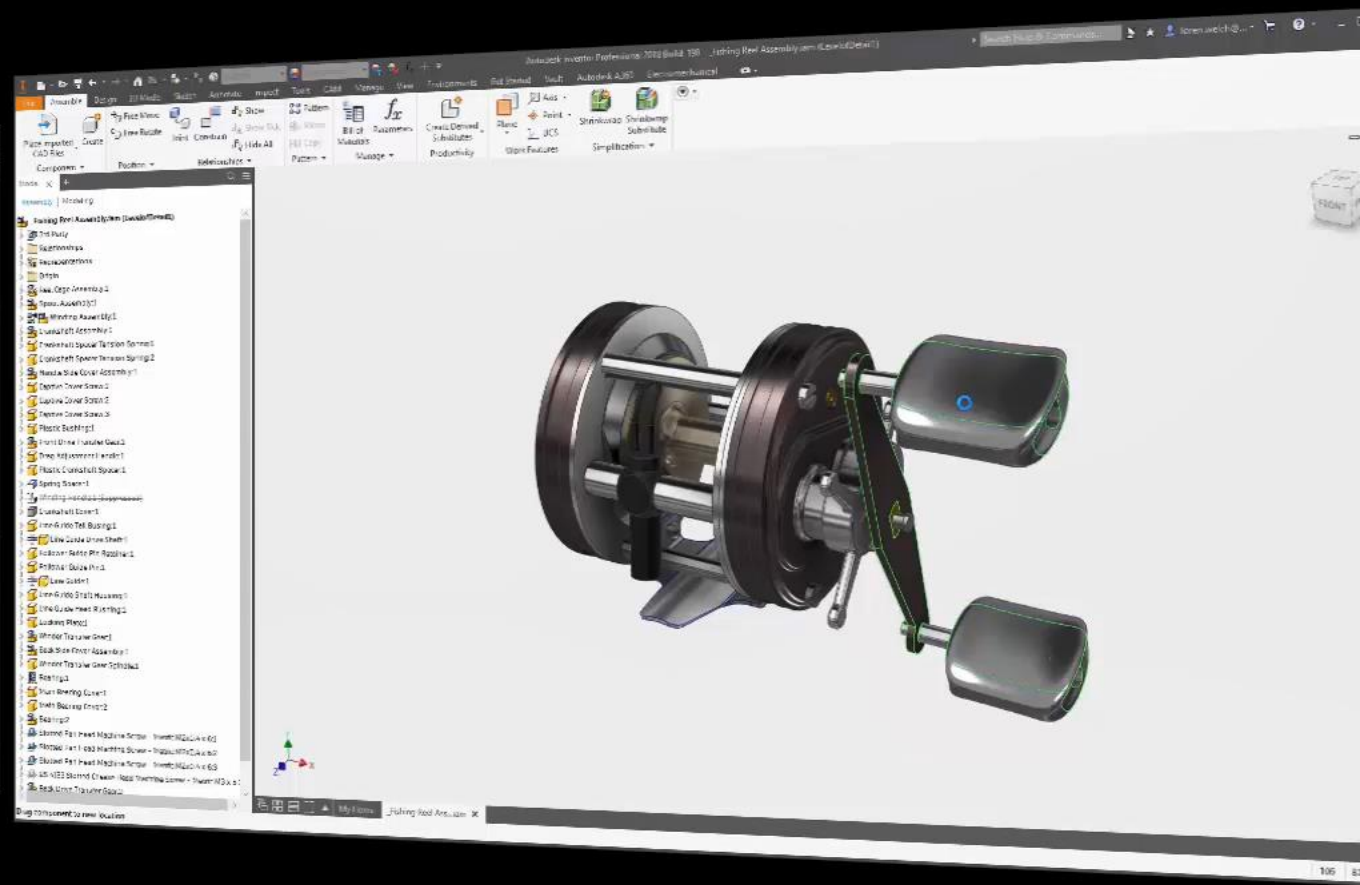




Inventor and Fusion 360 AnyCAD







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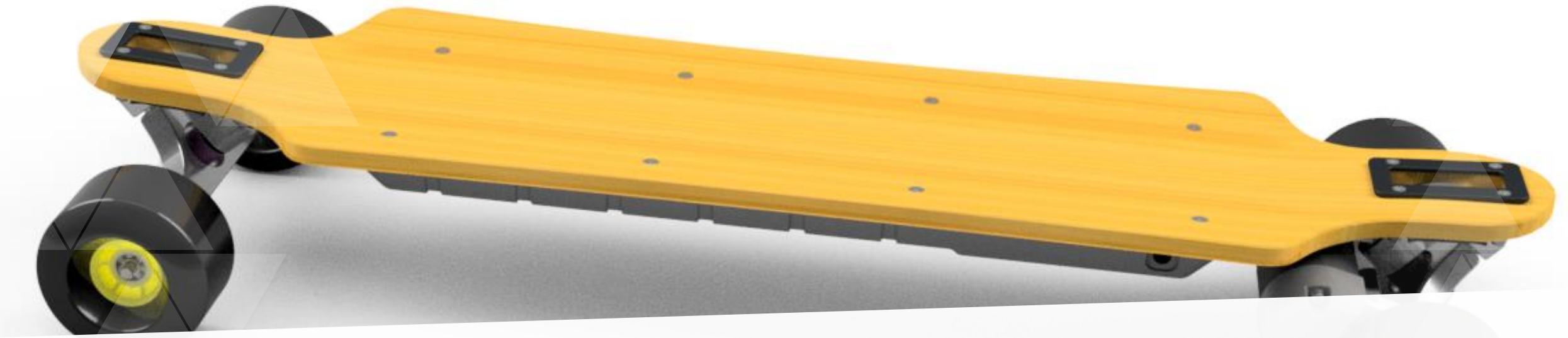


Inventor Experience

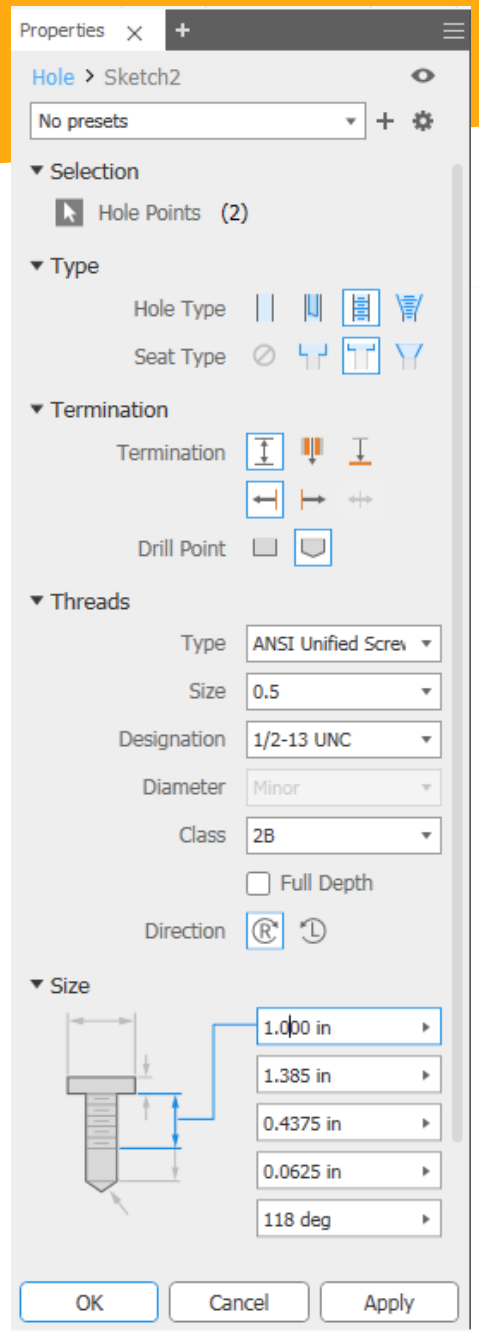
Designed in Inventor by Tobias Feger. Available for download on GrabCAD

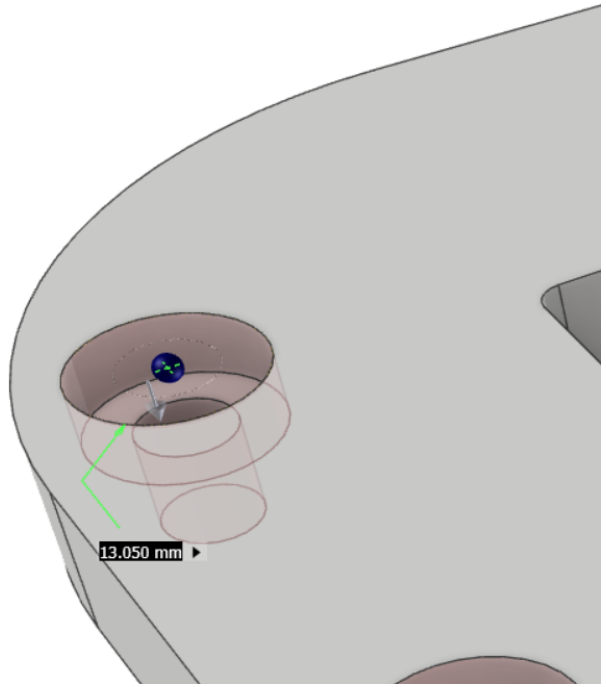
Hole Command

- Panel UX

- Presets for:
  - Hole Type Group
  - Termination
  - Threads/Fasteners
  - Size
  - Advanced Settings

- Create & Edit Sketch





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Search Help & Commands... luke.mihelcic

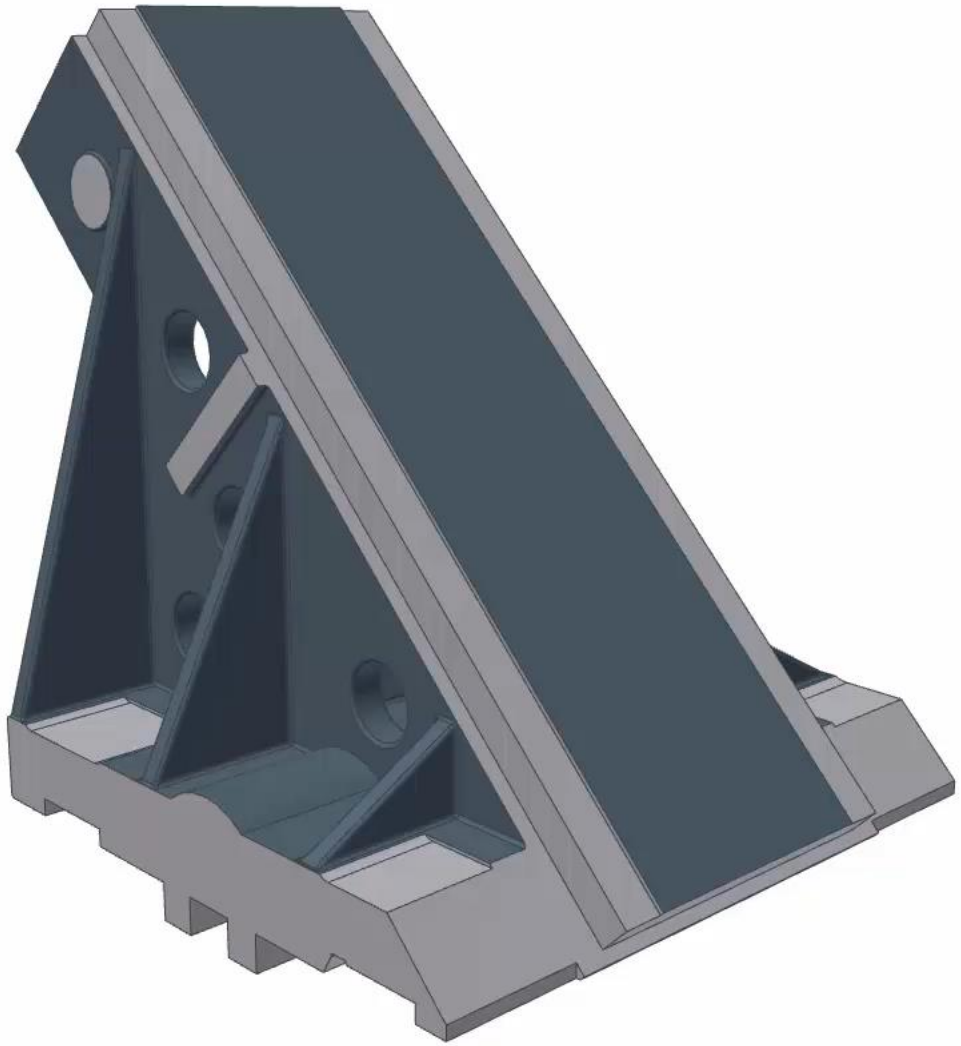
File | 3D Model | Sketch | Annotate | Inspect | Tools | Manage | View | Environments | Get Started | Collaborate

Start 2D Sketch | Extrude | Revolve | Sweep | Loft | Coil | Emboss | Derive | Rib | Decal | Import | Hole | Fillet | Chamfer | Shell | Draft | Thread | Combine | Thicken/ Offset | Split | Direct | Delete Face | Shape Generator | Plane | Axis | Point | UCS | Rectangular | Circular | Sketch Driven | Mirror | Box | Face | Convert | Stitch | Patch | Sculpt | Ruled Surface | Trim | Extend | Replace Face | Repair Bodies | Fit Mesh Face | Stress Analysis | Convert to Sheet Metal

Sketch | Create | Modify | Explore | Work Features | Pattern | Create Freeform | Surface | Simulation | Convert

Model

- Inventor 2019 whats new hole-1.ipt
  - Solid Bodies(1)
  - View: Master
  - Origin
  - new ML 3000371.ipt
  - Extrusion1
  - Extrusion2
  - ~~Hole1 (Suppressed)~~
  - Extrusion3
  - ~~Rectangular Pattern1 (Suppressed)~~
  - Sketch7
  - Extrusion4
  - Work Plane3
  - Extrusion6
  - Extrusion7
  - ~~Hole3 (Suppressed)~~
  - Extrusion8
  - Extrusion9
  - ~~Hole4 (Suppressed)~~
  - Extrusion10
  - ~~Work Axis1~~
  - ~~Hole5 (Suppressed)~~
  - ~~Rectangular Pattern2 (Suppressed)~~
  - ~~Hole6 (Suppressed)~~
  - ~~Mirror1 (Suppressed)~~
  - Extrusion11
  - ~~Hole7 (Suppressed)~~
  - ~~Hole8 (Suppressed)~~
  - Extrusion12
  - Extrusion13
  - ~~Work Axis2~~
  - ~~Hole10 (Suppressed)~~
  - ~~Hole11 (Suppressed)~~
  - ~~Hole12 (Suppressed)~~
  - ~~Hole13 (Suppressed)~~
  - ~~Hole14 (Suppressed)~~
  - ~~Hole15 (Suppressed)~~
  - Extrusion17
  - Extrusion18
  - Extrusion19
  - Extrusion20
  - Extrusion21
  - ~~Hole17 (Suppressed)~~
  - ~~Circular Pattern2 (Suppressed)~~



FRONT RIGHT

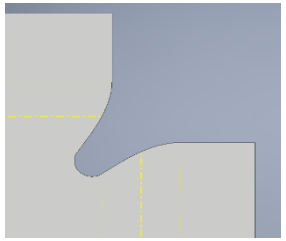
My Home | Inventor 2019 w...ipt

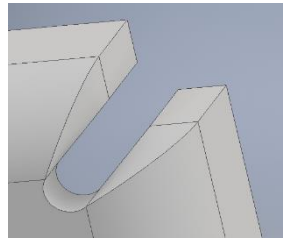
Ready

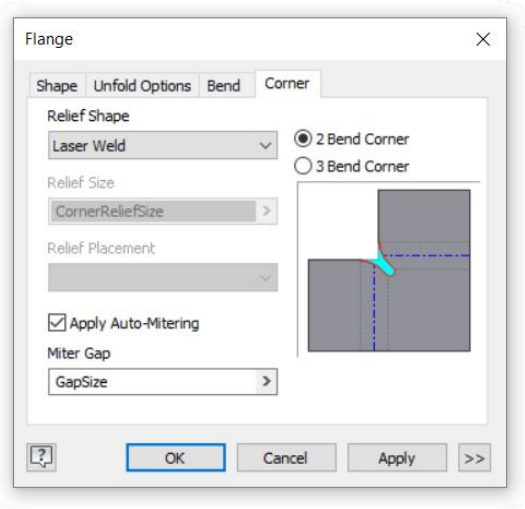
1 1

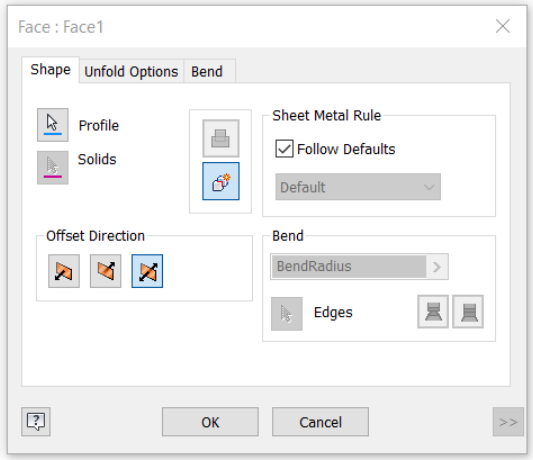
Sheet Metal

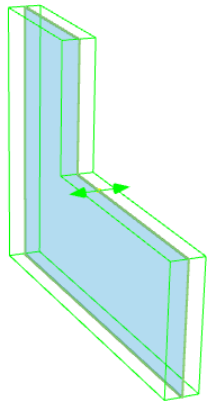
- Mid-Plane Face Extrude
- Corner Enhancements
- Laser Weld Relief Shape

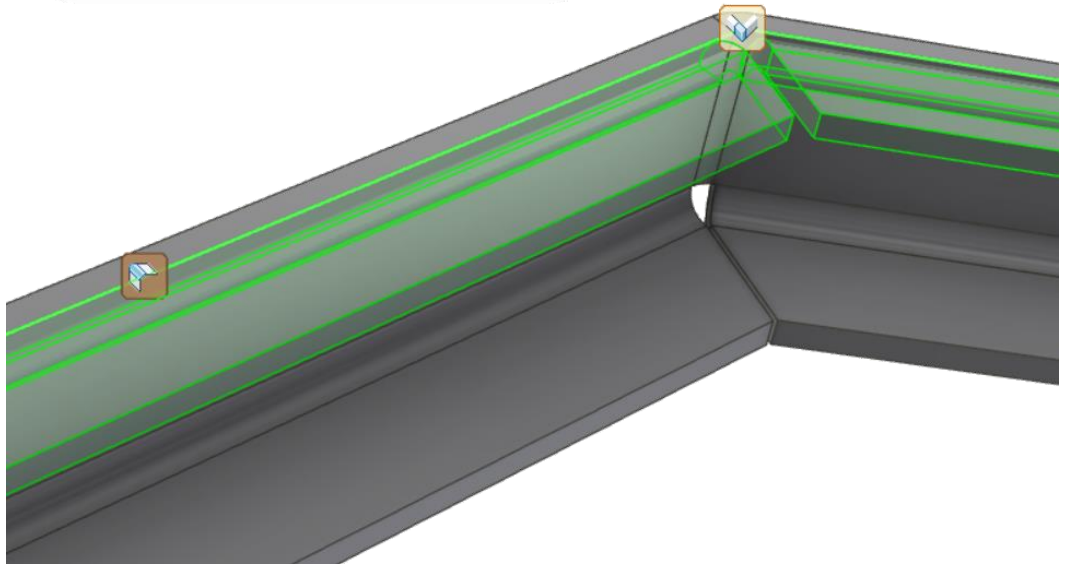


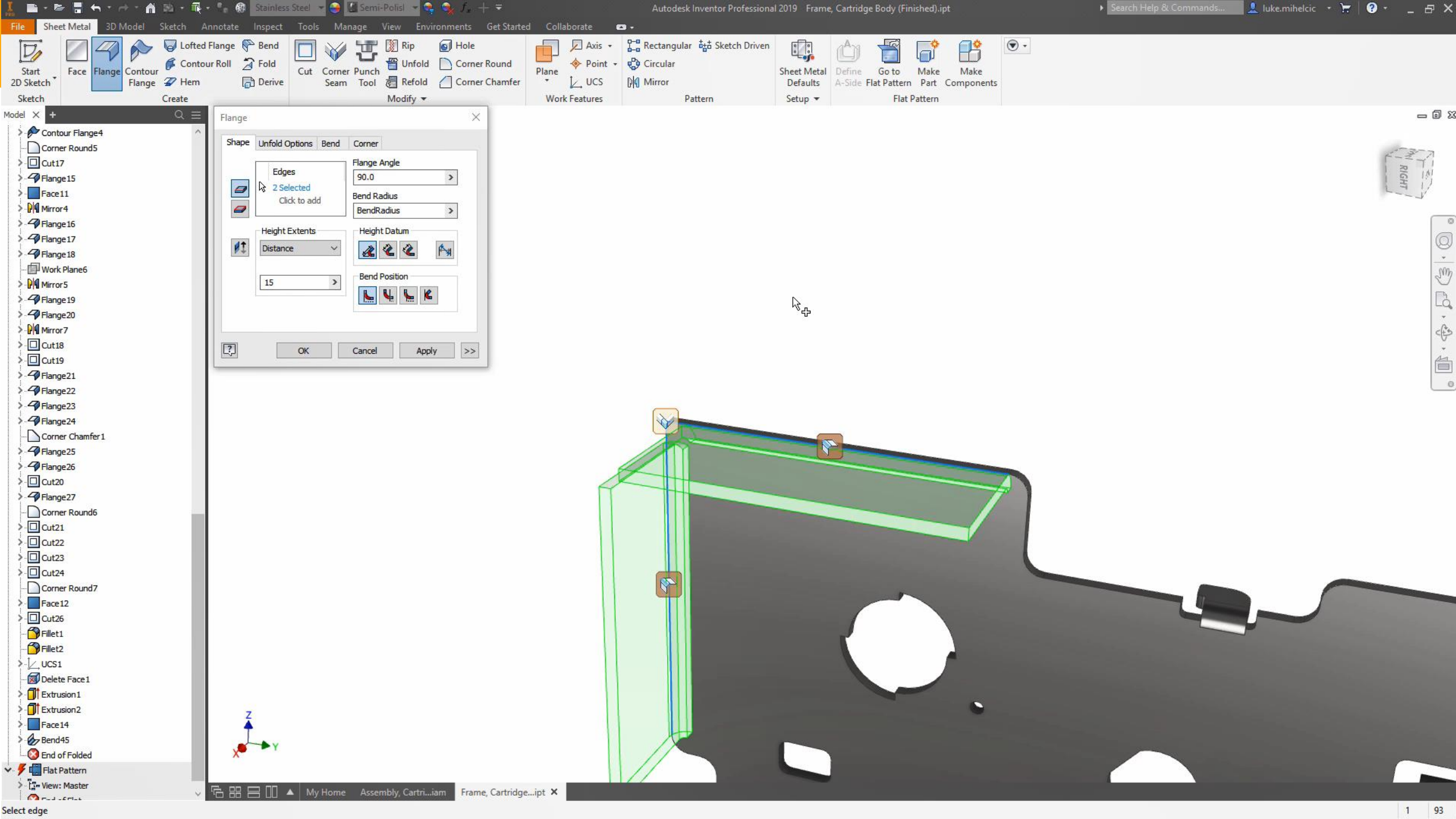








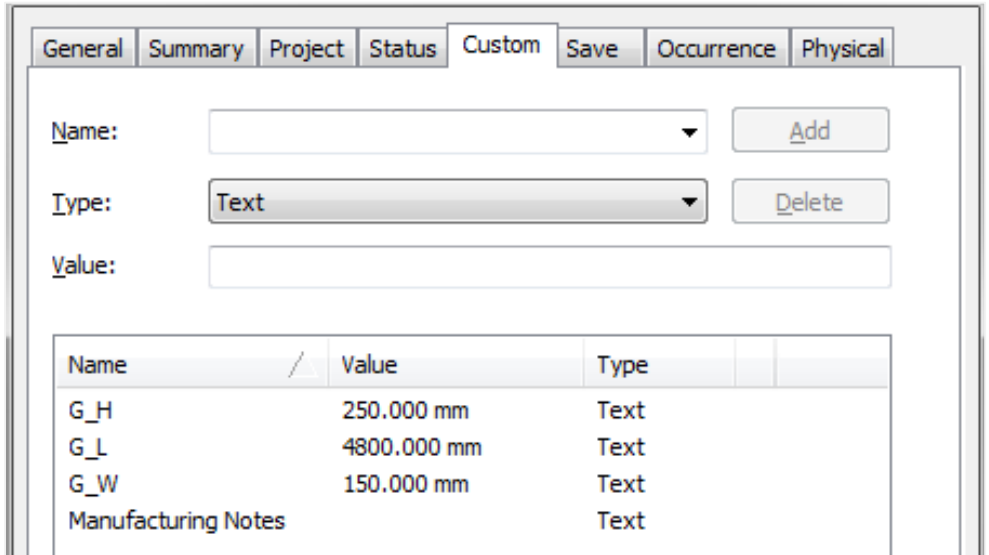


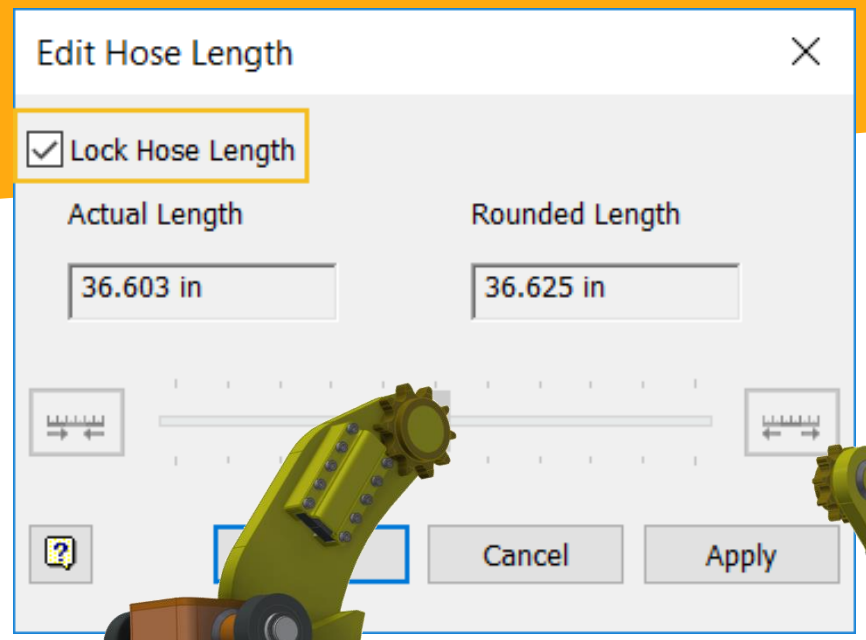

Autodesk Inventor Professional 2019 Frame, Cartridge Body (Finished).ipt
File Sheet Metal 3D Model Sketch Annotate Inspect Tools Manage View Environments Get Started Collaborate
Start 2D Sketch
Face Flange Contour Flange
Lofted Flange Contour Roll Hem
Bend Fold Derive
Cut Corner Seam Punch Tool
Rip Unfold Refold
Hole Corner Round Corner Chamfer
Plane Axis Point UCS
Rectangular Circular Mirror
Sketch Driven
Sheet Metal Defaults
Define A-Side Go to Flat Pattern Make Part Make Components
Sketch Create Modify Work Features Pattern Setup Flat Pattern
Model
Contour Flange4
Corner Round5
Cut17
Flange15
Face11
Mirror4
Flange16
Flange17
Flange18
Work Plane6
Mirror5
Flange19
Flange20
Mirror7
Cut18
Cut19
Flange21
Flange22
Flange23
Flange24
Corner Chamfer1
Flange25
Flange26
Cut20
Flange27
Corner Round6
Cut21
Cut22
Cut23
Cut24
Corner Round7
Face12
Cut26
Fillet1
Fillet2
UCS1
Delete Face1
Extrusion1
Extrusion2
Face14
Bend45
End of Folded
Flat Pattern
View: Master
Flange
Shape Unfold Options Bend Corner
Edges
2 Selected
Click to add
Flange Angle
90.0
Bend Radius
BendRadius
Height Extents
Distance
15
Height Datum
Bend Position
OK Cancel Apply >>
RIGHT
Z Y X
My Home Assembly, Cartri...iam Frame, Cartridge...ipt
Select edge
1 93

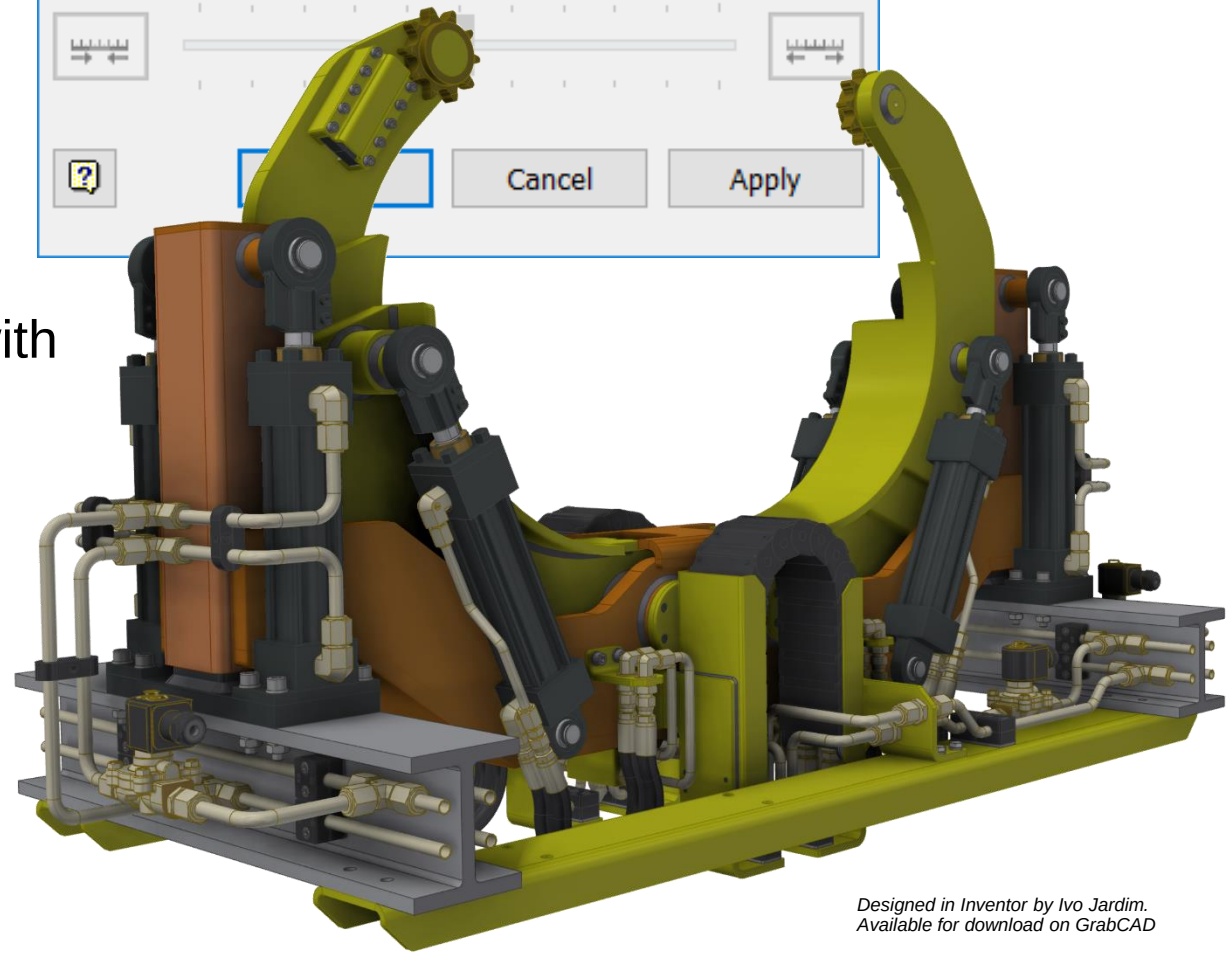
Tube & Pipe and Frame Generator

- Tube & Pipe
  - Lock Hose Length
  - Performance

- Frame Generator
  - CUTDETAIL enhancement for members with multiple end treatments



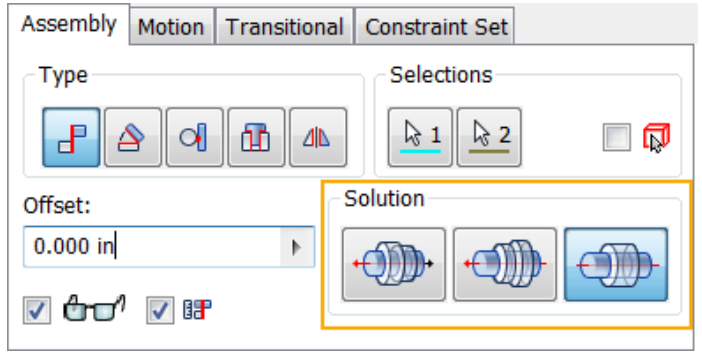


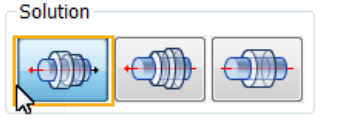


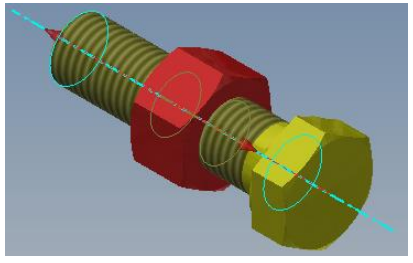
Designed in Inventor by Ivo Jardim.
Available for download on GrabCAD

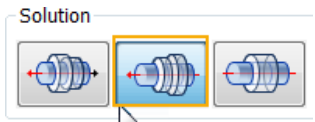
Inventor Ideas

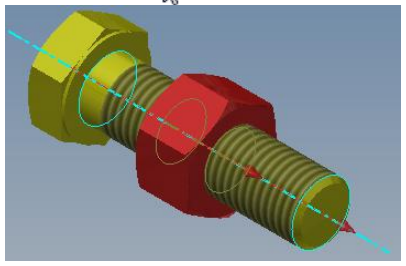
- Display Extended Browser Information
- Assembly Constraints
  - Lock Rotation
  - Opposed, Aligned & Undirected

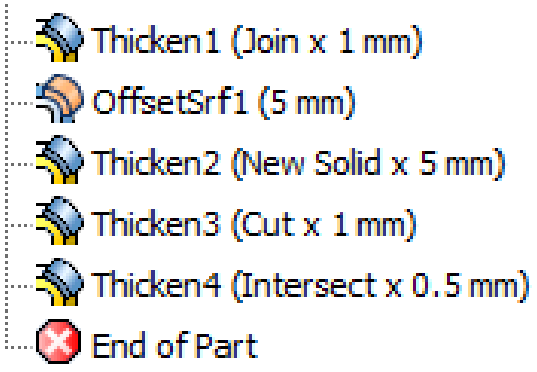


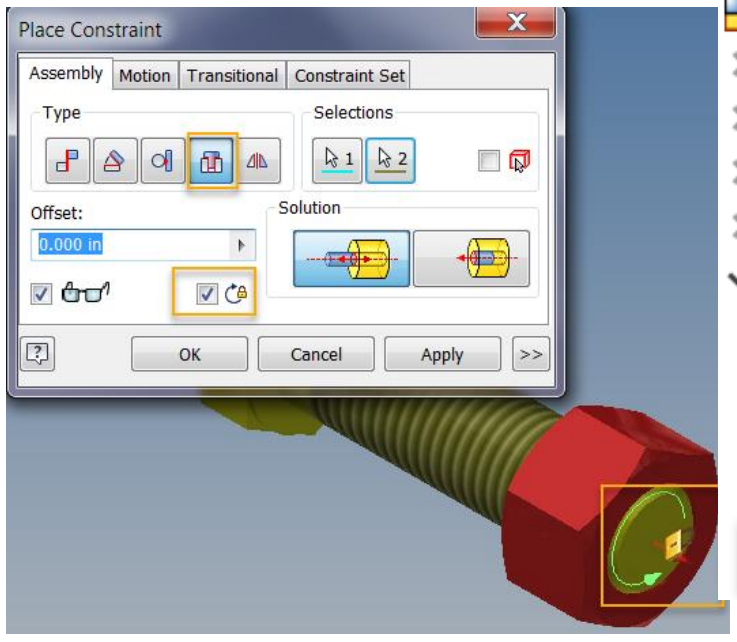


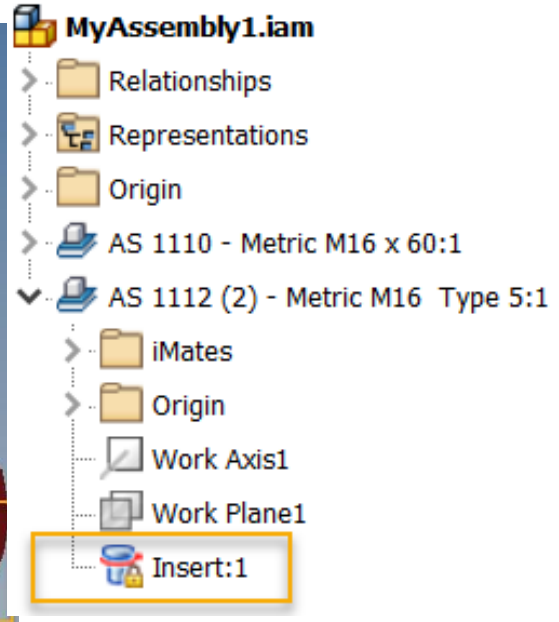


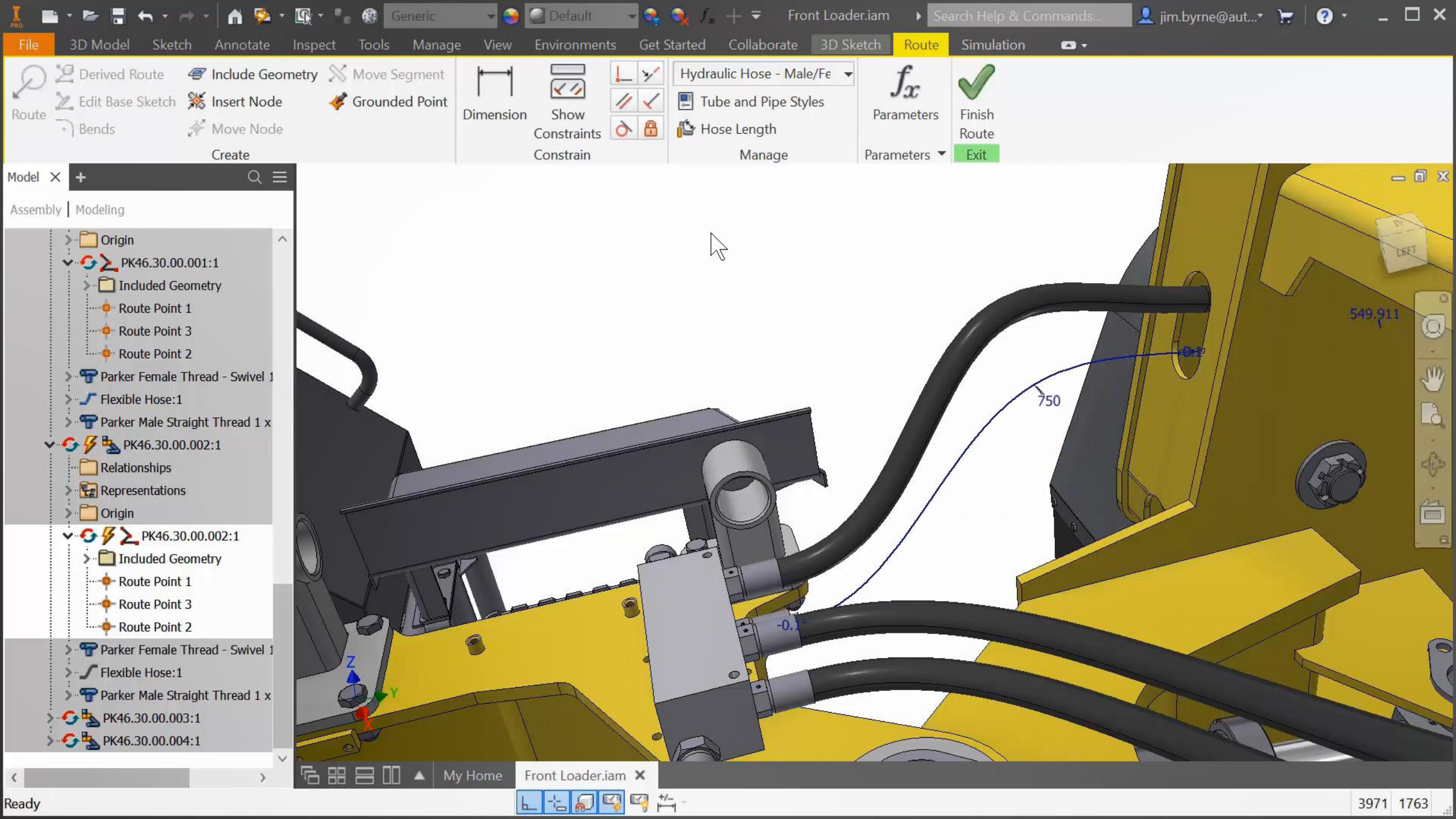






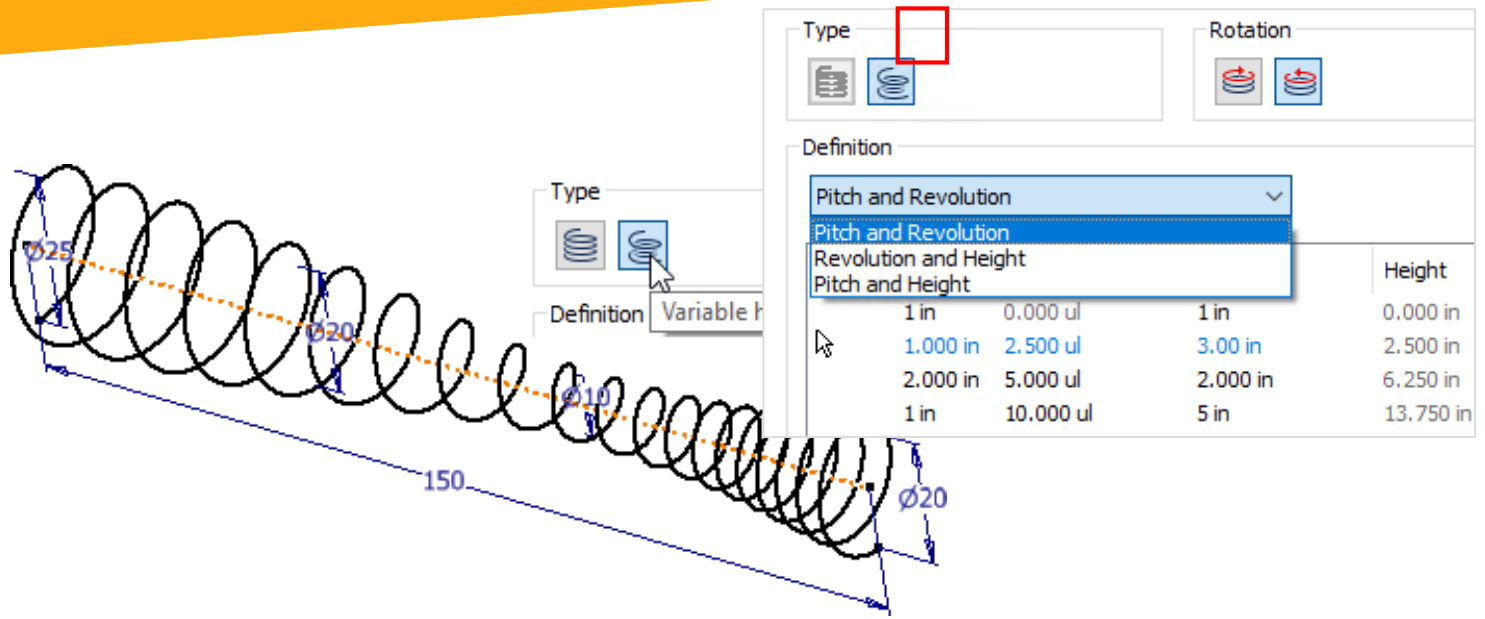


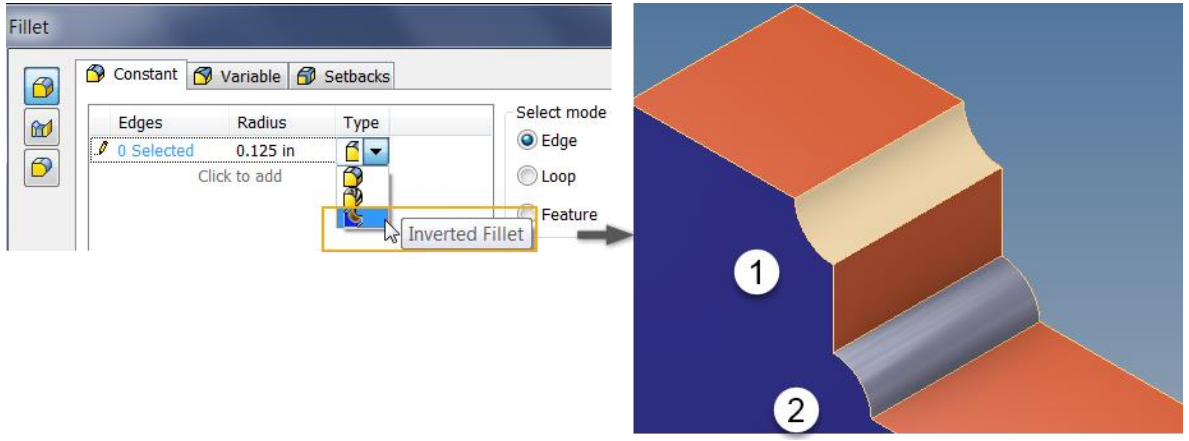


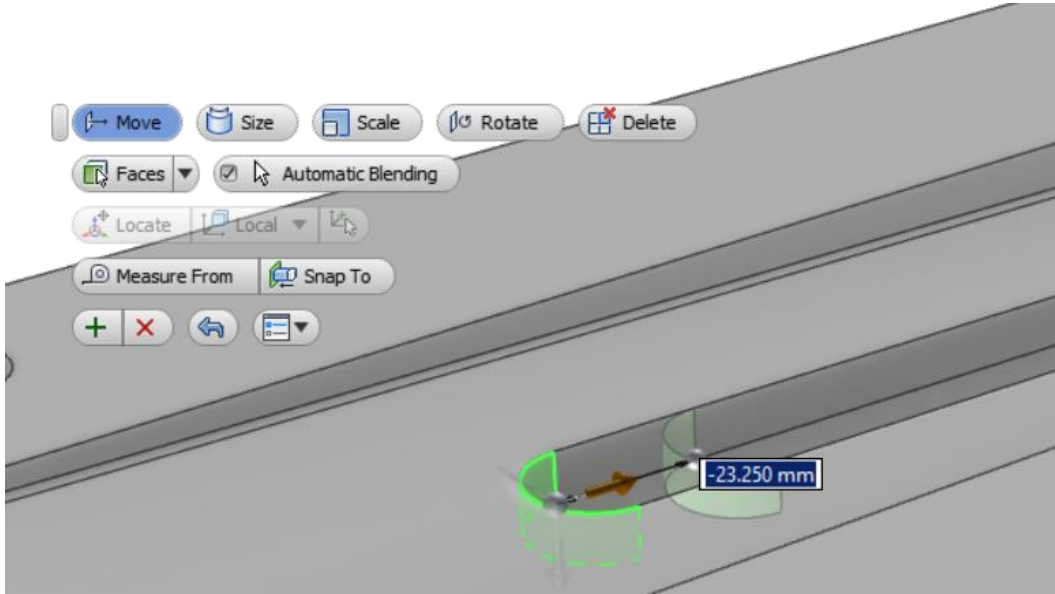

Front Loader.iam
Search Help & Commands...
jim.byrne@aut...
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Get Started
Collaborate
3D Sketch
Route
Simulation
Route
Derived Route
Edit Base Sketch
Bends
Include Geometry
Insert Node
Move Node
Move Segment
Grounded Point
Create
Dimension
Show Constraints
Constrain
Hydraulic Hose - Male/Fe
Tube and Pipe Styles
Hose Length
Manage
Parameters
Parameters
Finish Route
Exit
Model
Assembly
Modeling
Origin
PK46.30.00.001:1
Included Geometry
Route Point 1
Route Point 3
Route Point 2
Parker Female Thread - Swivel 1
Flexible Hose:1
Parker Male Straight Thread 1 x
PK46.30.00.002:1
Relationships
Representations
Origin
PK46.30.00.002:1
Included Geometry
Route Point 1
Route Point 3
Route Point 2
Parker Female Thread - Swivel 1
Flexible Hose:1
Parker Male Straight Thread 1 x
PK46.30.00.003:1
PK46.30.00.004:1
549.911
750
-0.1°
-0.1°
Z
Y
X
My Home
Front Loader.iam
Ready
3971
1763

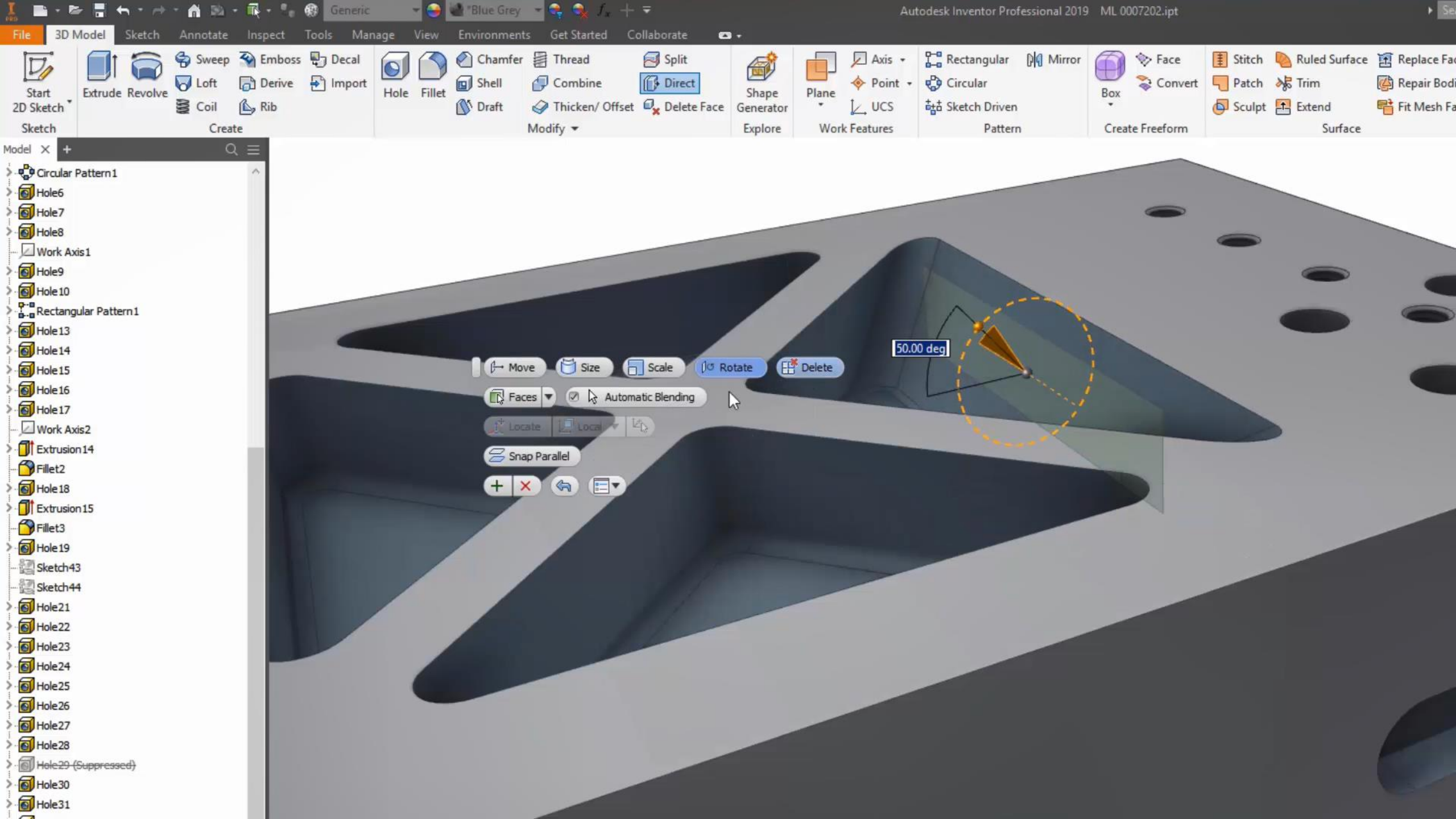
Inventor Ideas

- Variable Radial/Helical Curve
- Inverted Fillet
- Automatic Blend for Direct Edit








Autodesk Inventor Professional 2019 ML 0007202.ipt
File
3D Model
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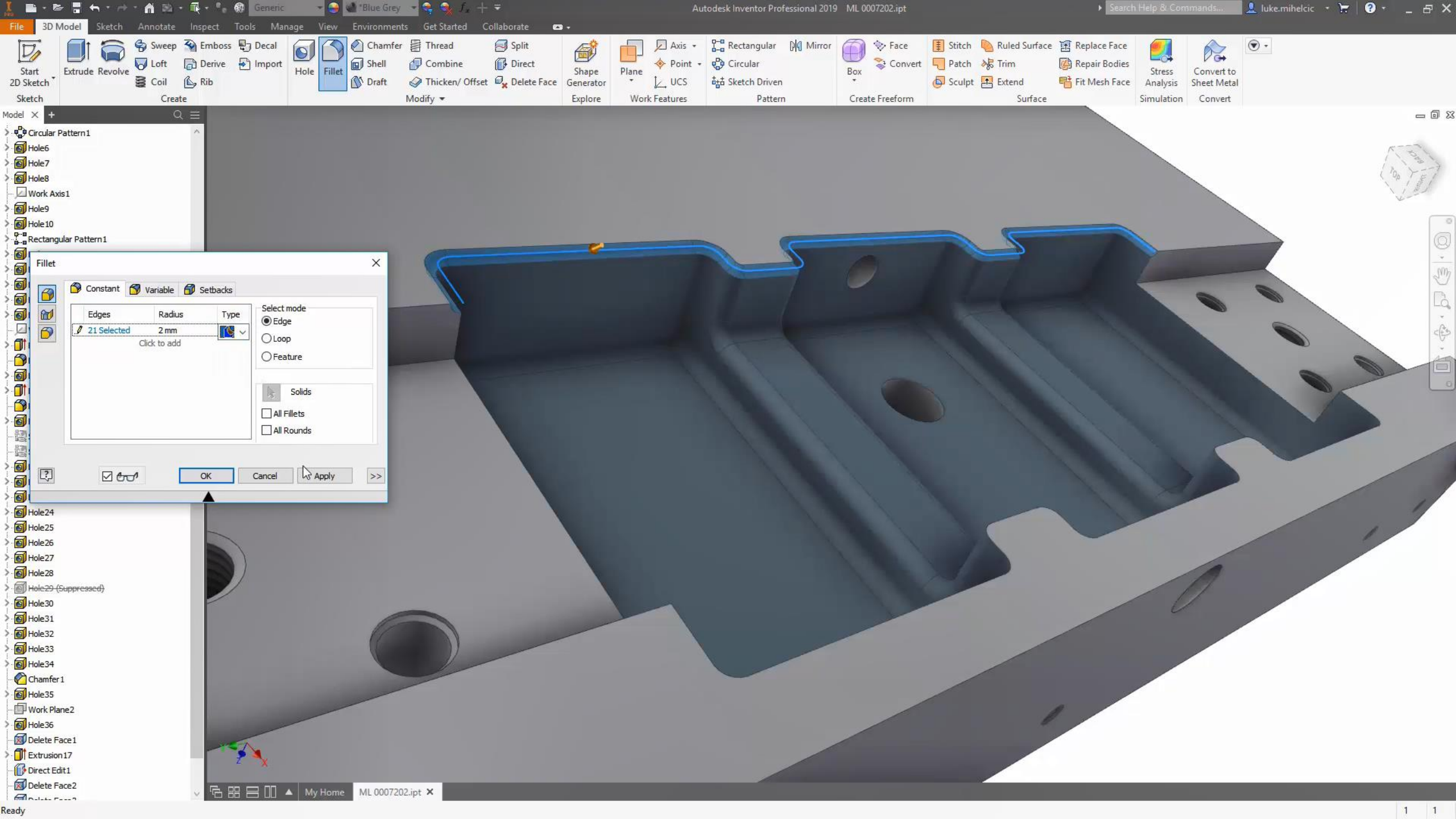
Inspect
Tools
Manage
View
Environments
Get Started
Collaborate
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Thicken/ Offset
Split
Direct
Delete Face
Shape Generator
Plane
Axis
Point
UCS
Rectangular
Circular
Sketch Driven
Mirror
Box
Face
Convert
Stitch
Patch
Sculpt
Ruled Surface
Trim
Extend
Replace Fac
Repair Bodi
Fit Mesh Fa
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Model
Circular Pattern1
Hole6
Hole7
Hole8
Work Axis1
Hole9
Hole10
Rectangular Pattern1
Hole13
Hole14
Hole15
Hole16
Hole17
Work Axis2
Extrusion14
Fillet2
Hole18
Extrusion15
Fillet3
Hole19
Sketch43
Sketch44
Hole21
Hole22
Hole23
Hole24
Hole25
Hole26
Hole27
Hole28
Hole29 (Suppressed)
Hole30
Hole31
Move
Size
Scale
Rotate
Delete
Faces
Automatic Blending
Locate
Local
Snap Parallel
50.00 deg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Repair Bodies
Fit Mesh Face
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Circular Pattern1
Hole6
Hole7
Hole8
Work Axis1
Hole9
Hole10
Rectangular Pattern1
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Hole28
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Hole30
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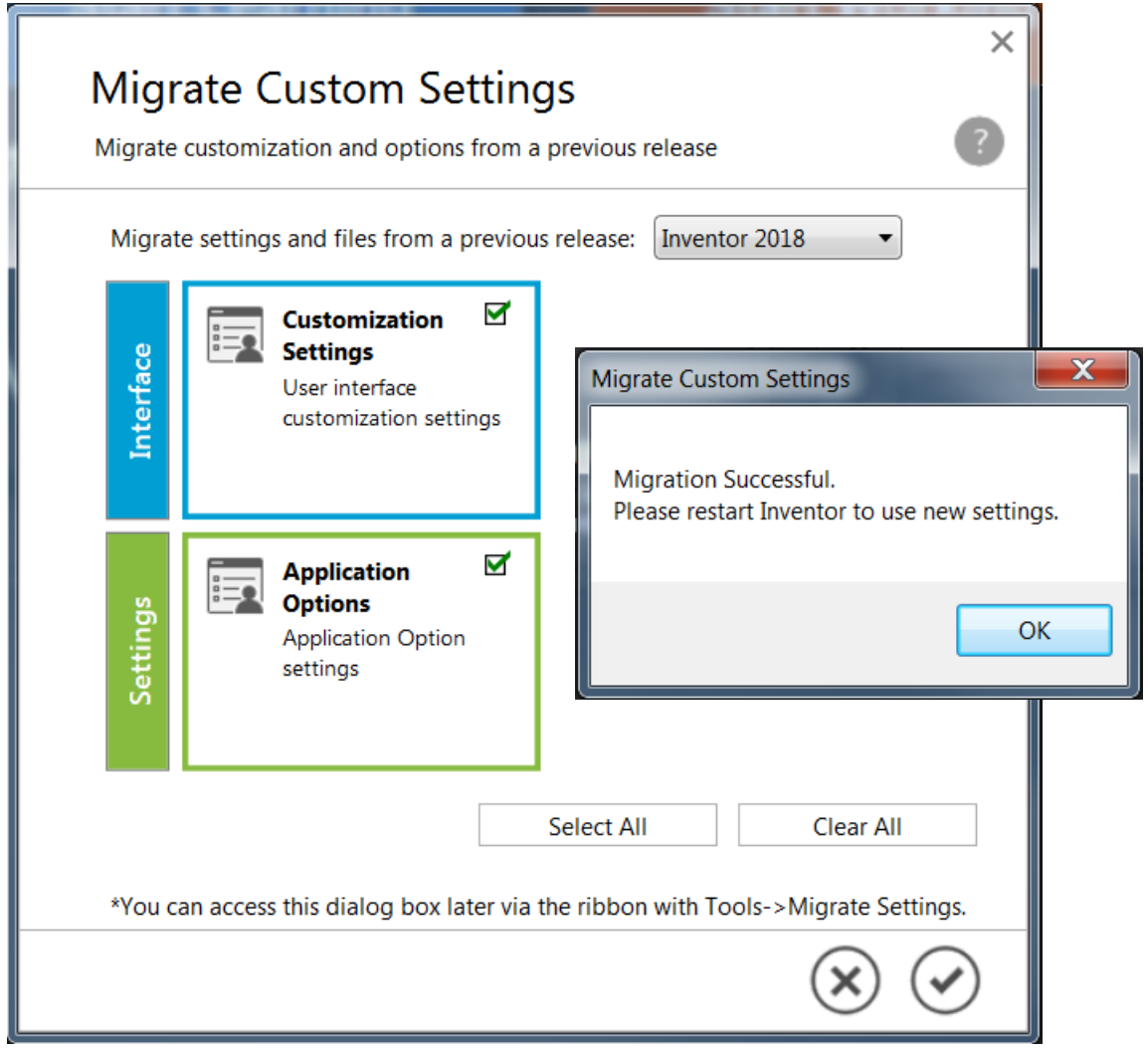
Hole32
Hole33
Hole34
Chamfer1
Hole35
Work Plane2
Hole36
Delete Face1
Extrusion17
Direct Edit1
Delete Face2
Fillet
Constant
Variable
Setbacks
Edges
Radius
Type
21 Selected
2 mm
Click to add
Select mode
Edge
Loop
Feature
Solids
All Fillets
All Rounds
OK
Cancel
Apply
>>
My Home
ML 0007202.ipt
Ready

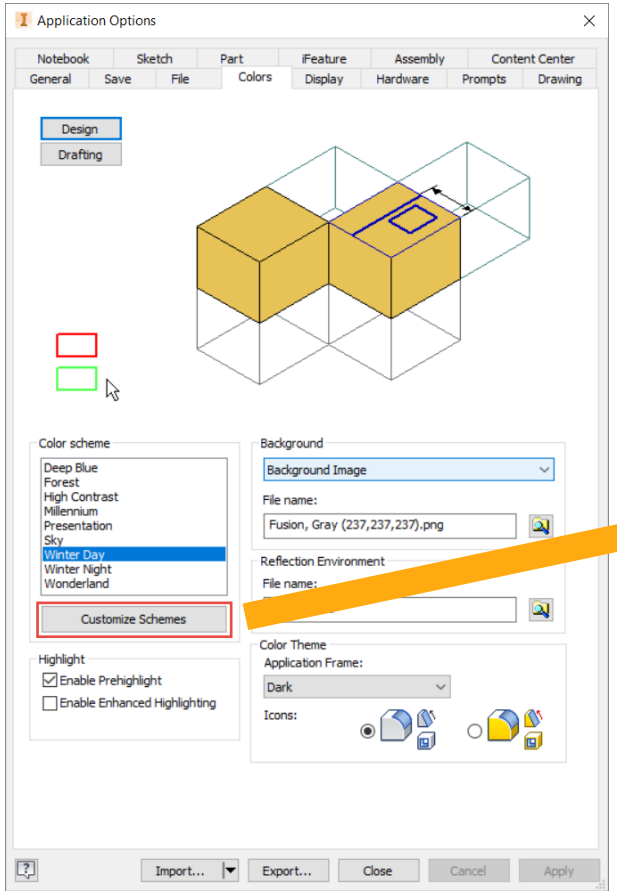
Migrate Custom Settings Tool

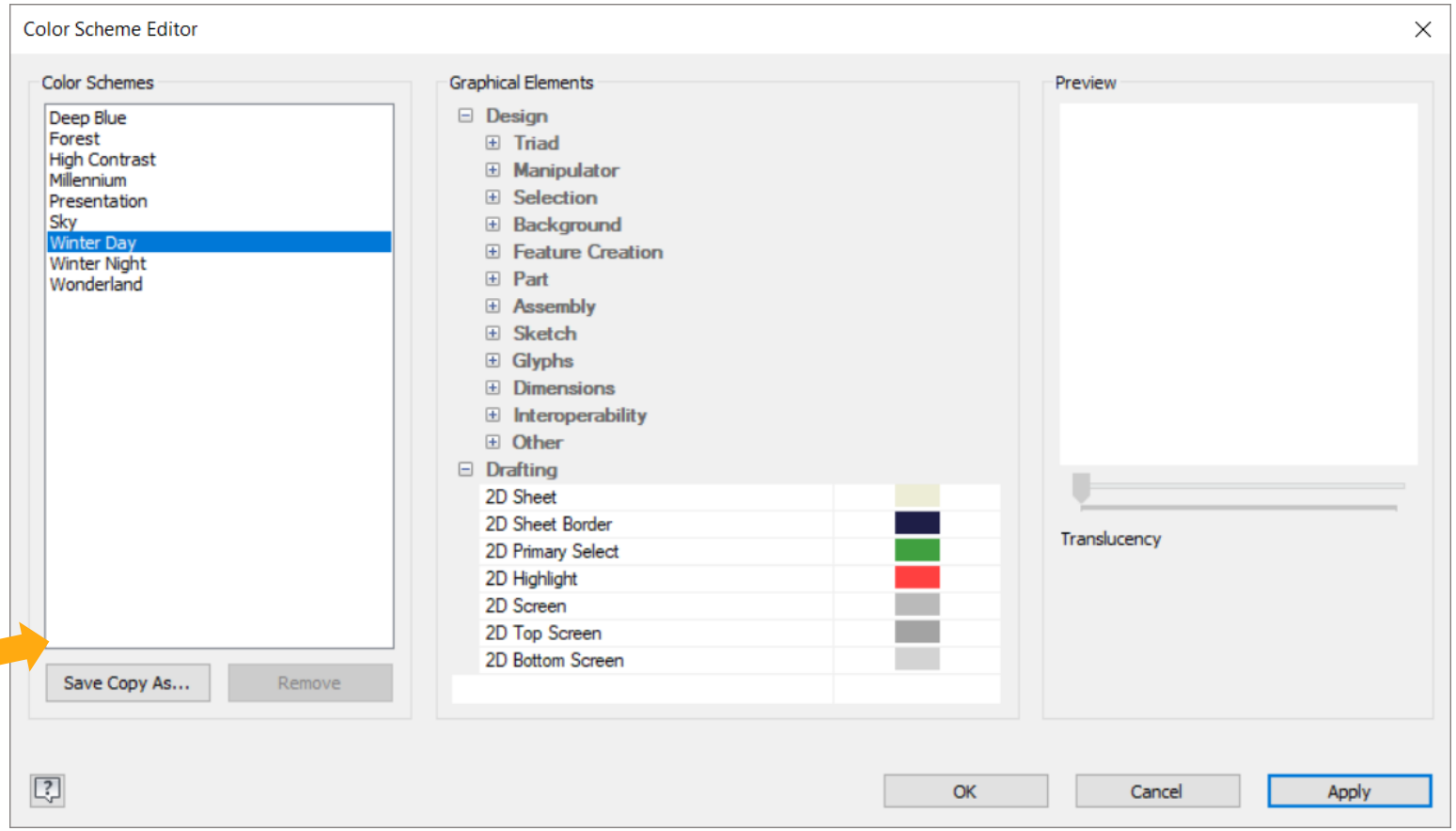
- Initiated on first run of Inventor 2019
- Execute on demand later
- Migrate Customization Settings
- Migrate Application Options



Color Schema Editor

- Customize and save color schemes for Inventor 2019



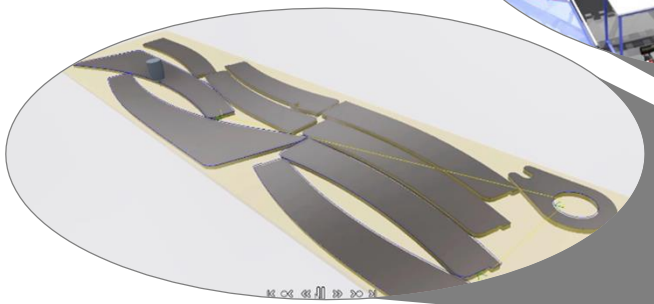


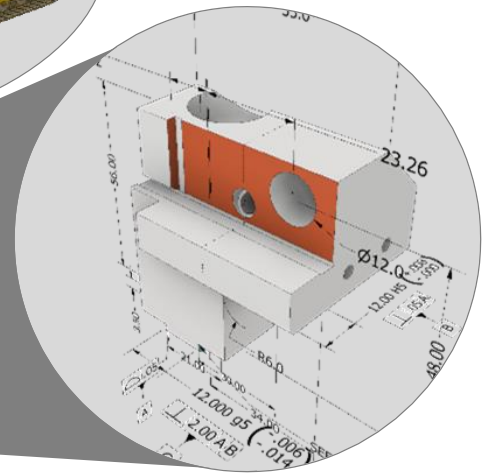
AUTODESK

FACTORY DESIGN
UTILITY

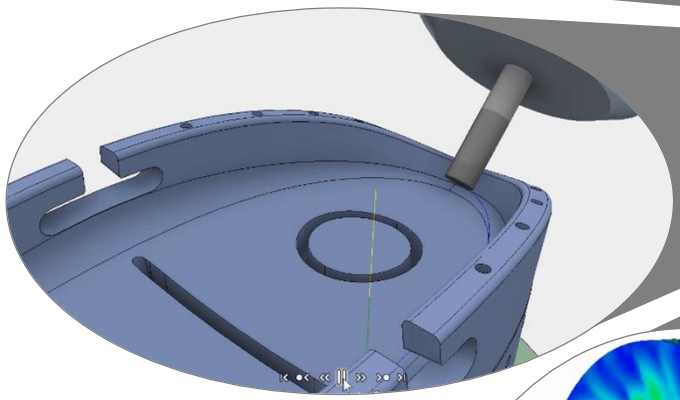
PERFORMANCE
& AUTOMATION

NESTING

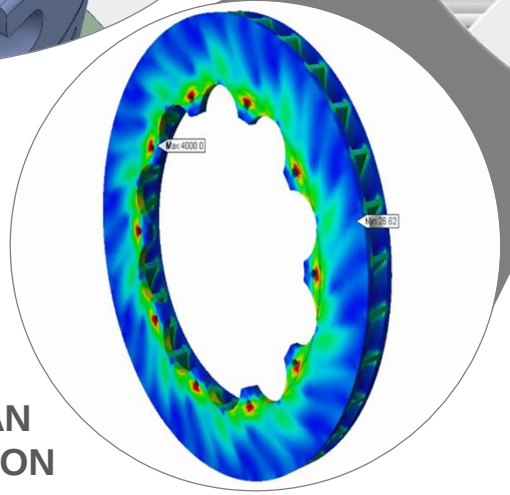




MODEL BASED
DEFINITION

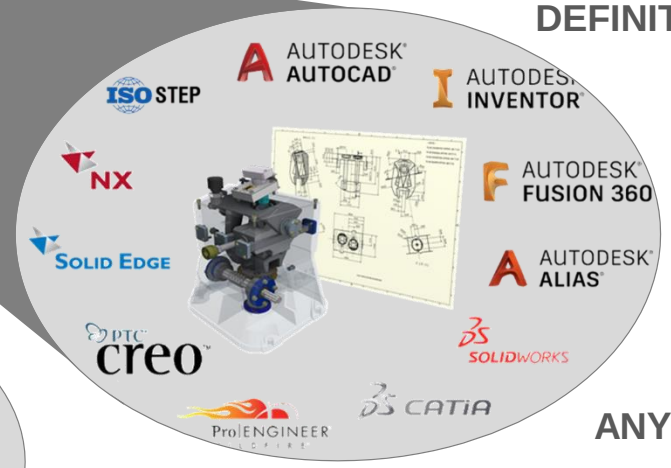


INTEGRATED
2.5-5 AXIS CAM



NASTRAN
SIMULATION

CLOUD
COLLABORATION



ANYCAD

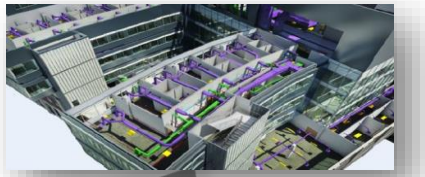
AUTODESK® PRODUCT DESIGN & MANUFACTURING COLLECTION

AUTODESK® ARCHITECTURE, ENGINEERING & CONSTRUCTION COLLECTION

Industry 4.0

Autodesk Digital Factory solution

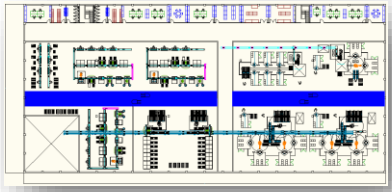
Installation & commissioning

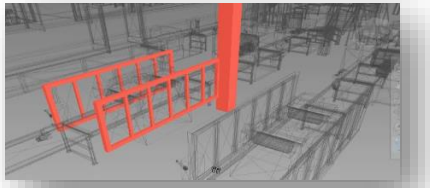


Process simulation

BIM – Building Information Modeling

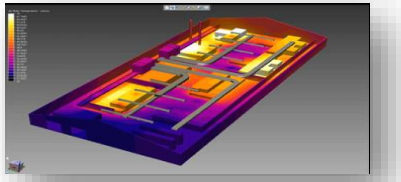
Factory layout





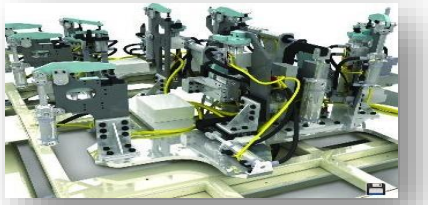
Clash & clearance analysis

Multi-CAD / Point cloud review



Ventilation / Emission / Energy efficiency CFD simulation

Work cell design



Tool & fixture design

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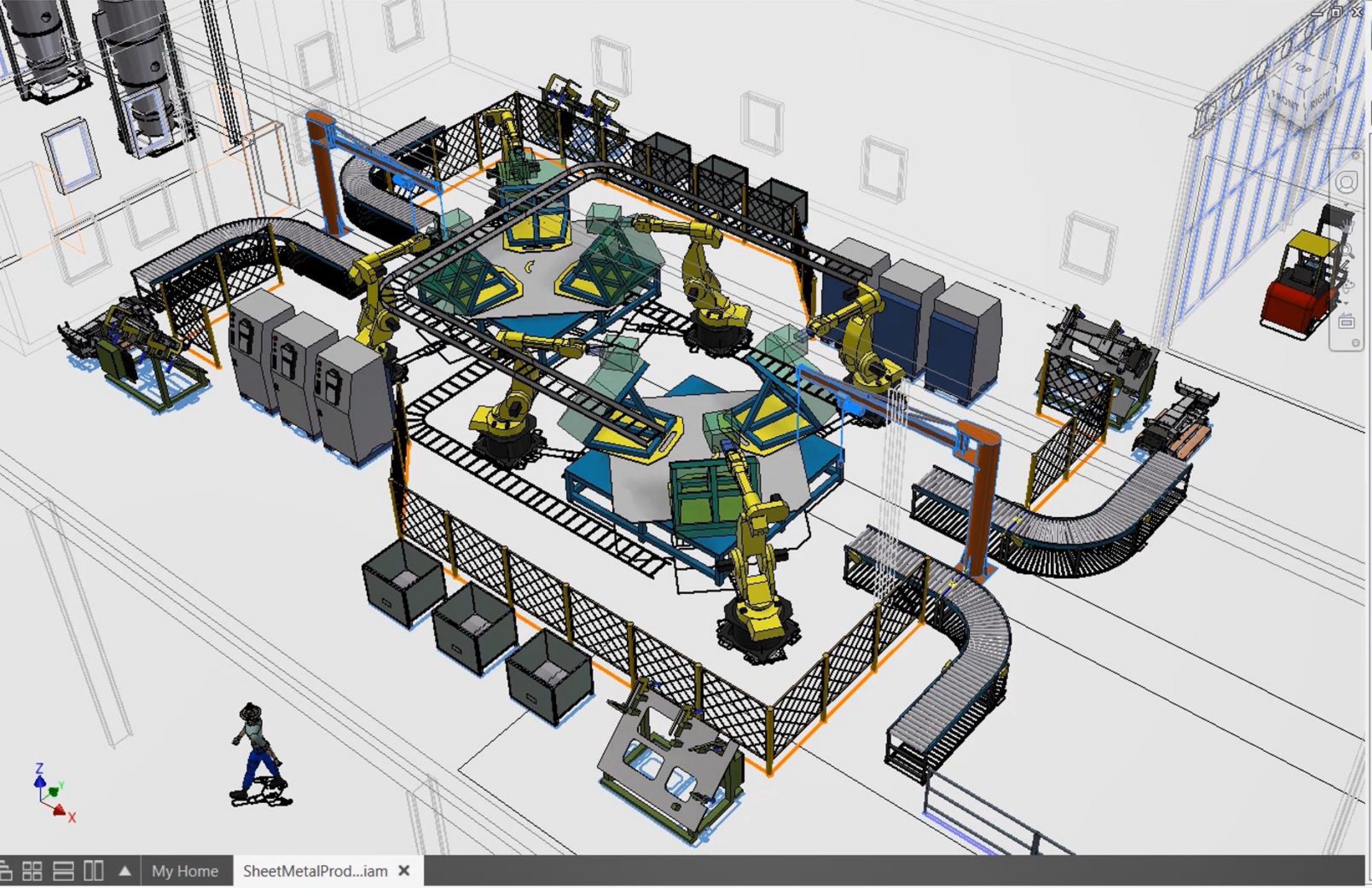
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Search Results
Jib Crane
Mini Overhead...
Portable Jib Cr...
Slewing Arm Ji...
My Home
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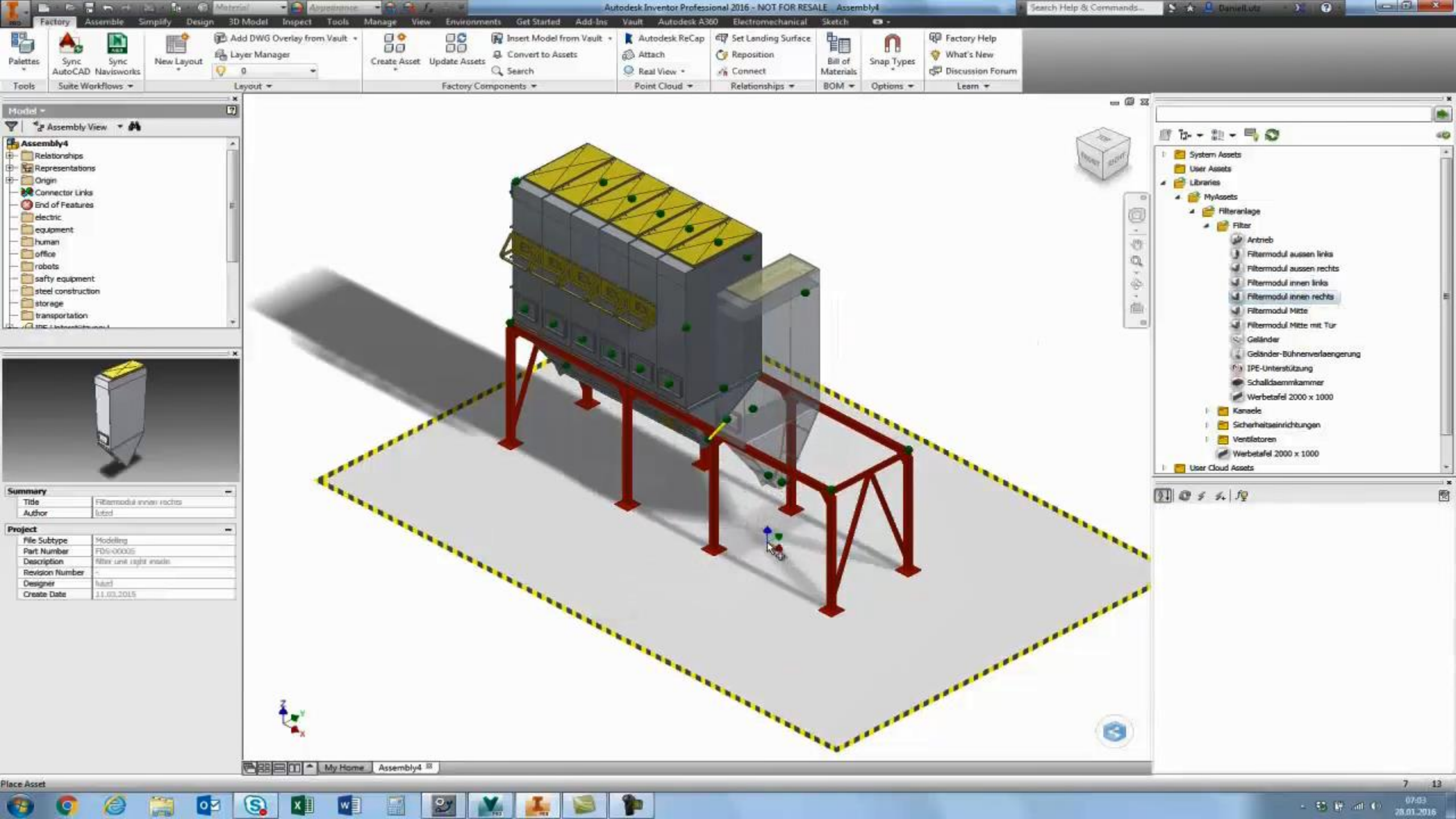
Autodesk Inventor Professional 2016 - NOT FOR RESALE Assembly4
Factory
Assemble
Simplify
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Inspect
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Manage
View
Environments
Get Started
Add-Ins
Vault
Autodesk A360
Electromechanical
Sketch
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Sync AutoCAD
Sync Navisworks
New Layout
Add DWG Overlay from Vault
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Update Assets
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storage
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Revision Number
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User Assets
Libraries
MyAssets
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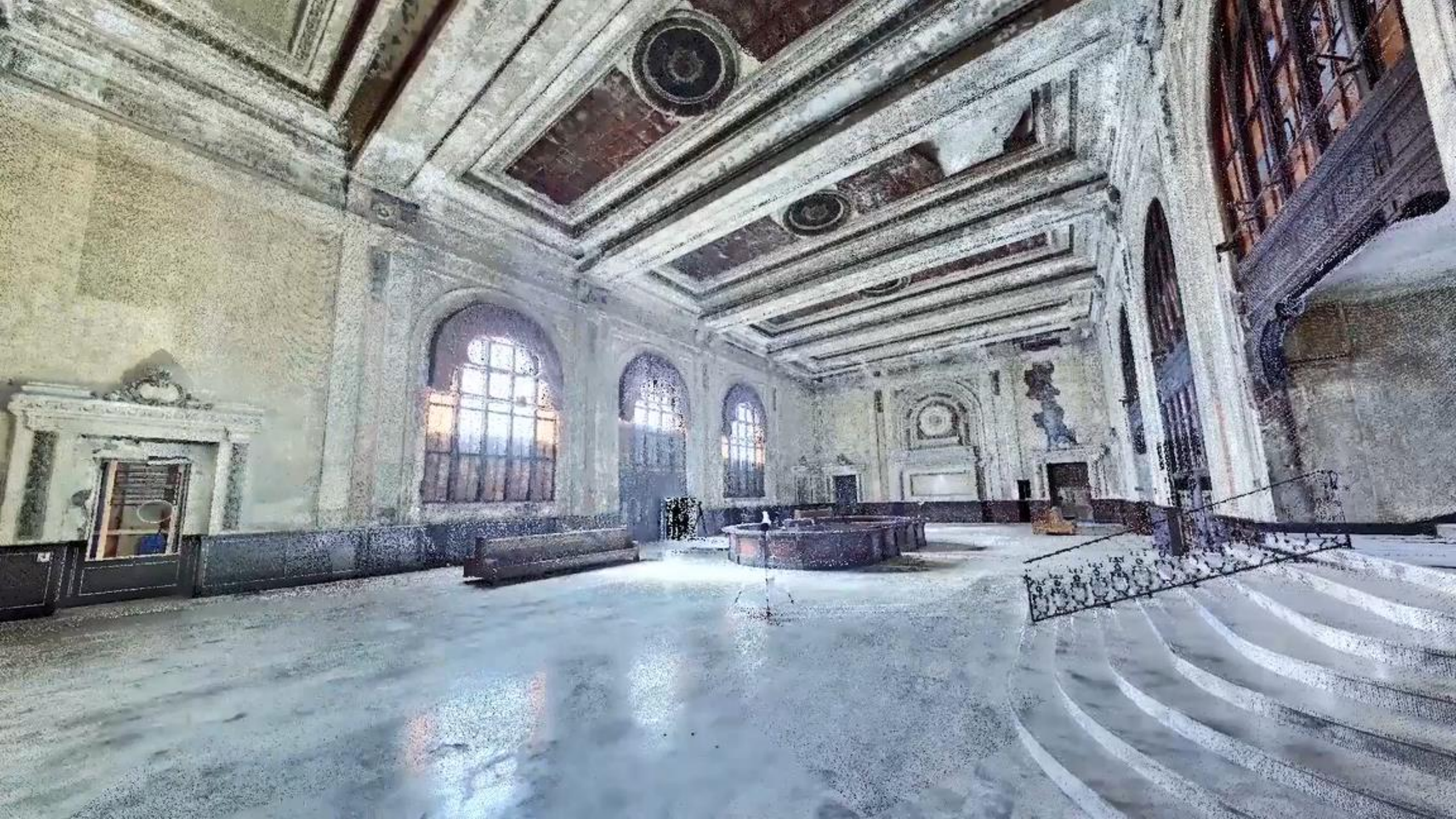
Filter
Antrieb
Filtermodul aussen links
Filtermodul aussen rechts
Filtermodul innen links
Filtermodul innen rechts
Filtermodul Mitte
Filtermodul Mitte mit Tür
Geländer
Geländer-Bühnenverlaengerung
IPE-Unterstützung
Schalldaemmkammer
Werbetafel 2000 x 1000
Kanaele
Sicherheitseinrichtungen
Ventilatoren
Werbetafel 2000 x 1000
User Cloud Assets
My Home
Assembly4
Place Asset



unified pano
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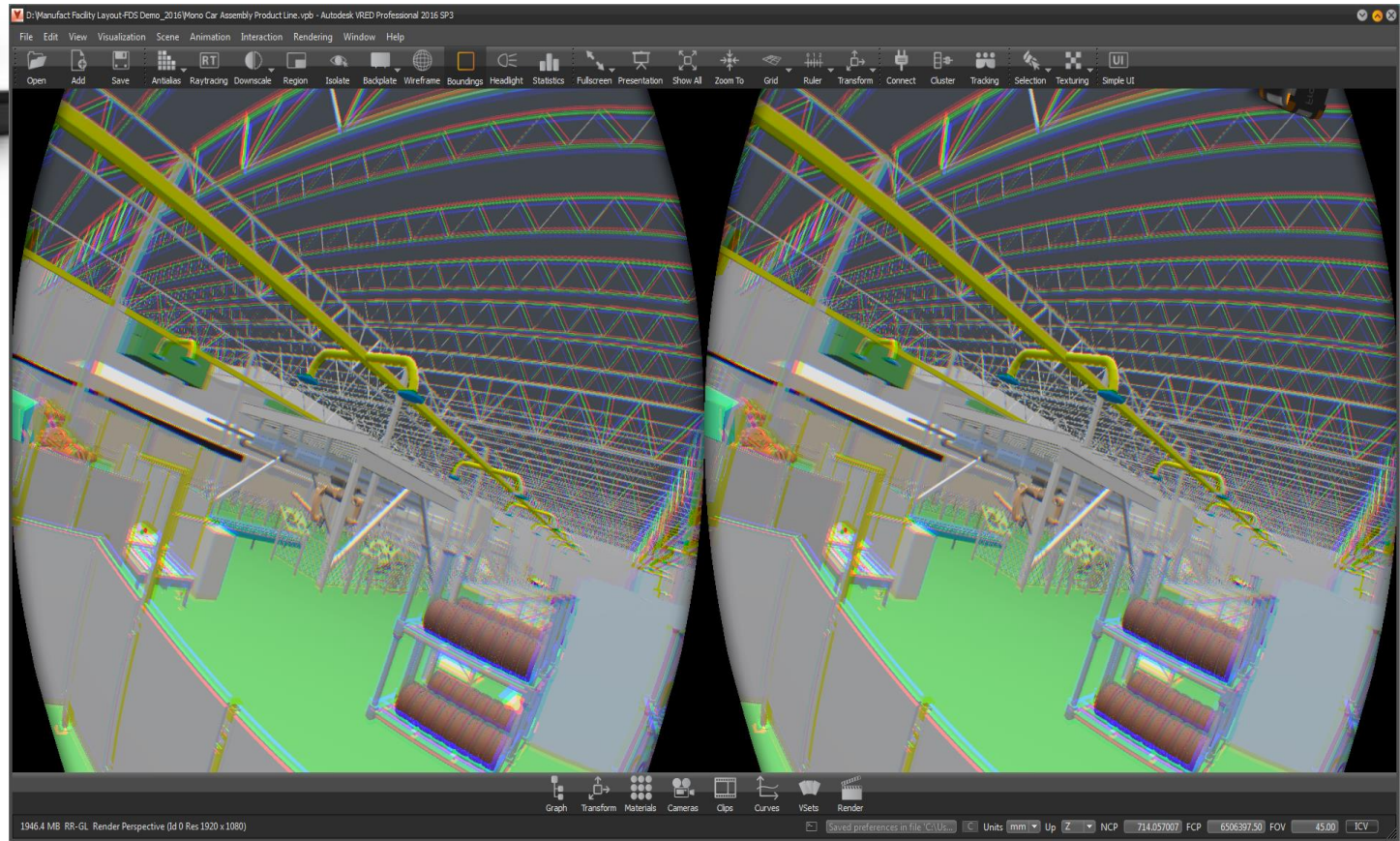
D:\Manufact Facility Layout-FDS Demo_2016\Mono Car Assembly Product Line.vpb - Autodesk VRED Professional 2016 SP3
File Edit View Visualization Scene Animation Interaction Rendering Window Help
Open Add Save Antialias Raytracing Downscale Region Isolate Backplate Wireframe Boundings Headlight Statistics Fullscreen Presentation Show All Zoom To Grid Ruler Transform Connect Cluster Tracking Selection Texturing Simple UI
Graph Transform Materials Cameras Clips Curves VSets Render
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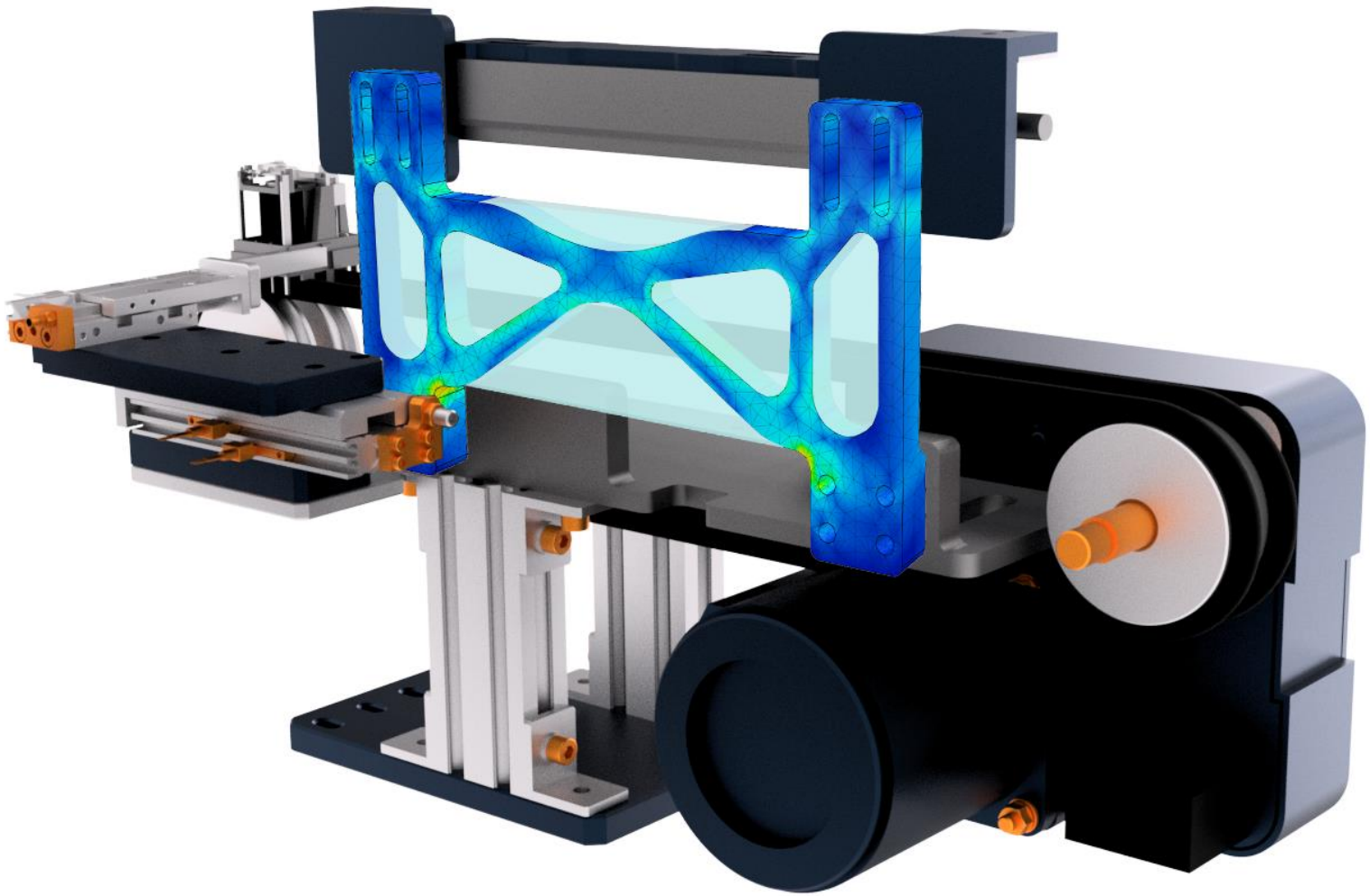

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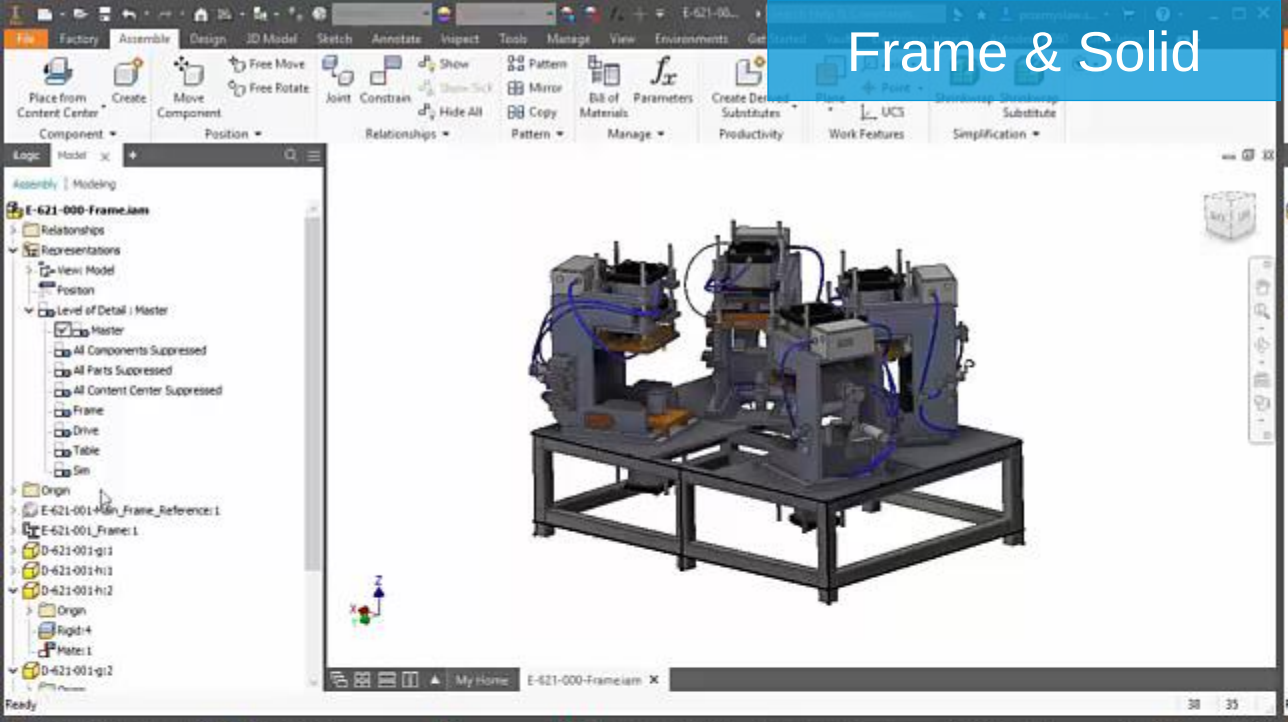
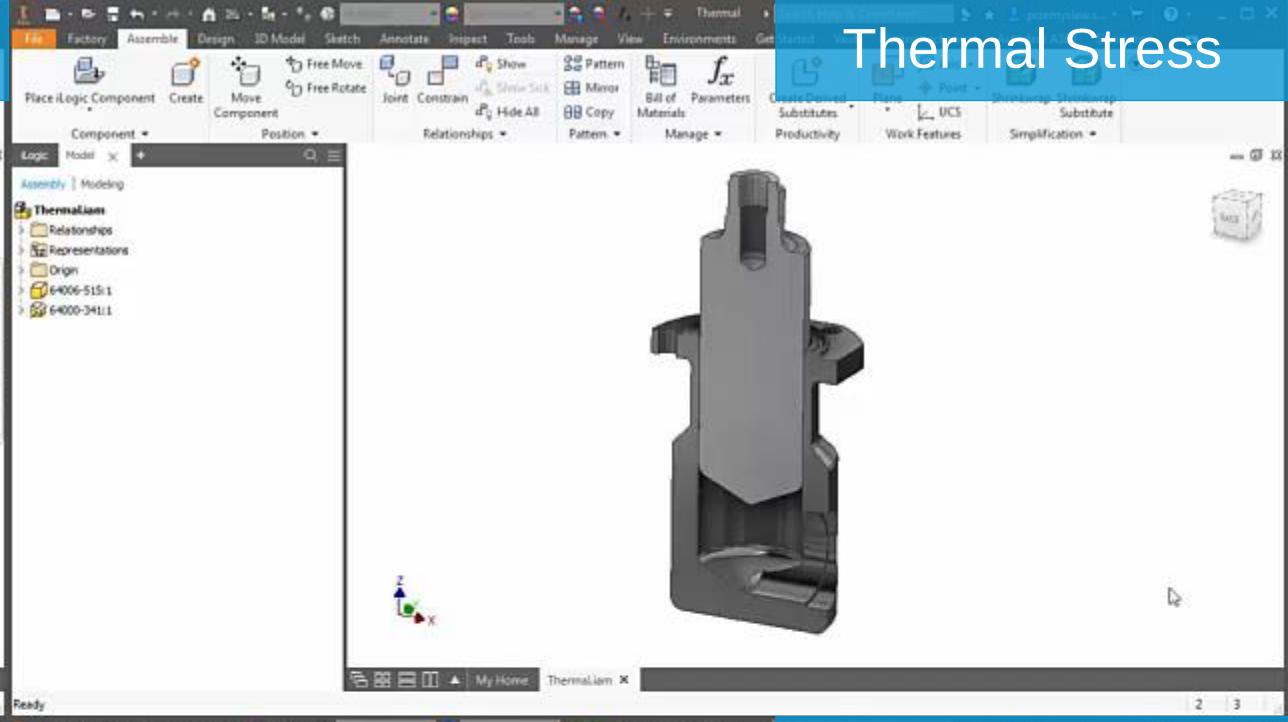
2018

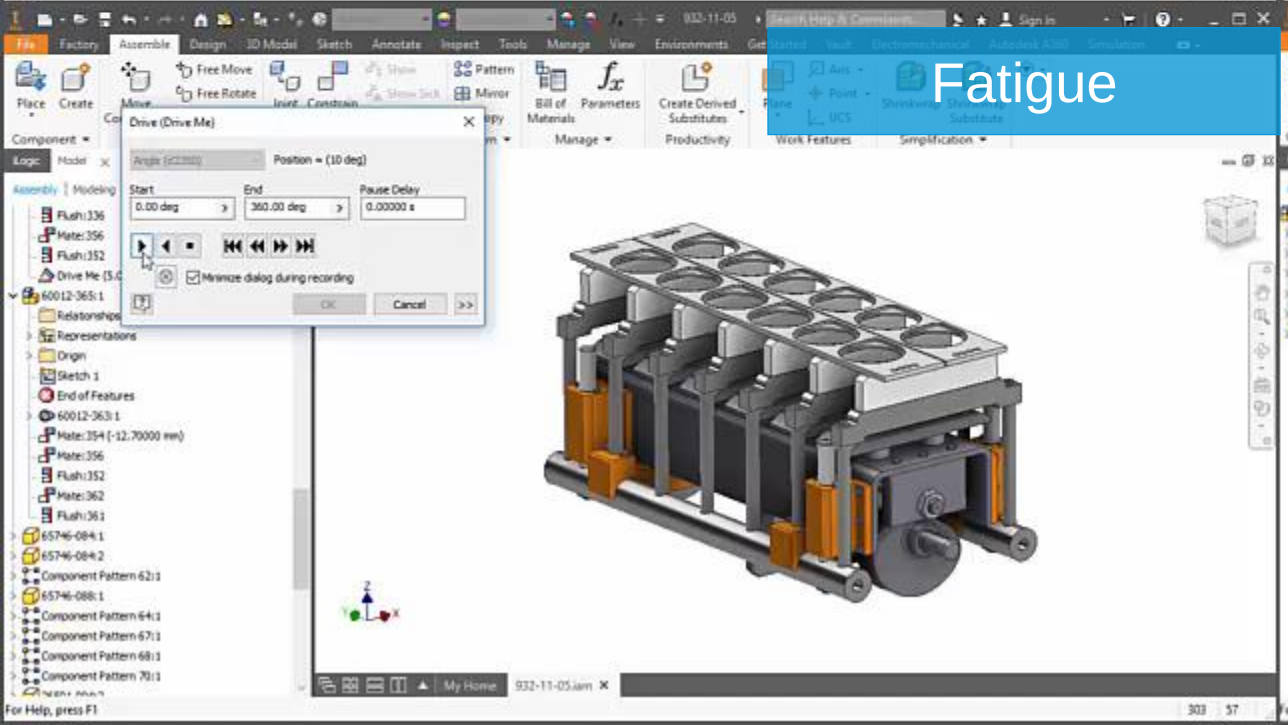
Frame & Solid



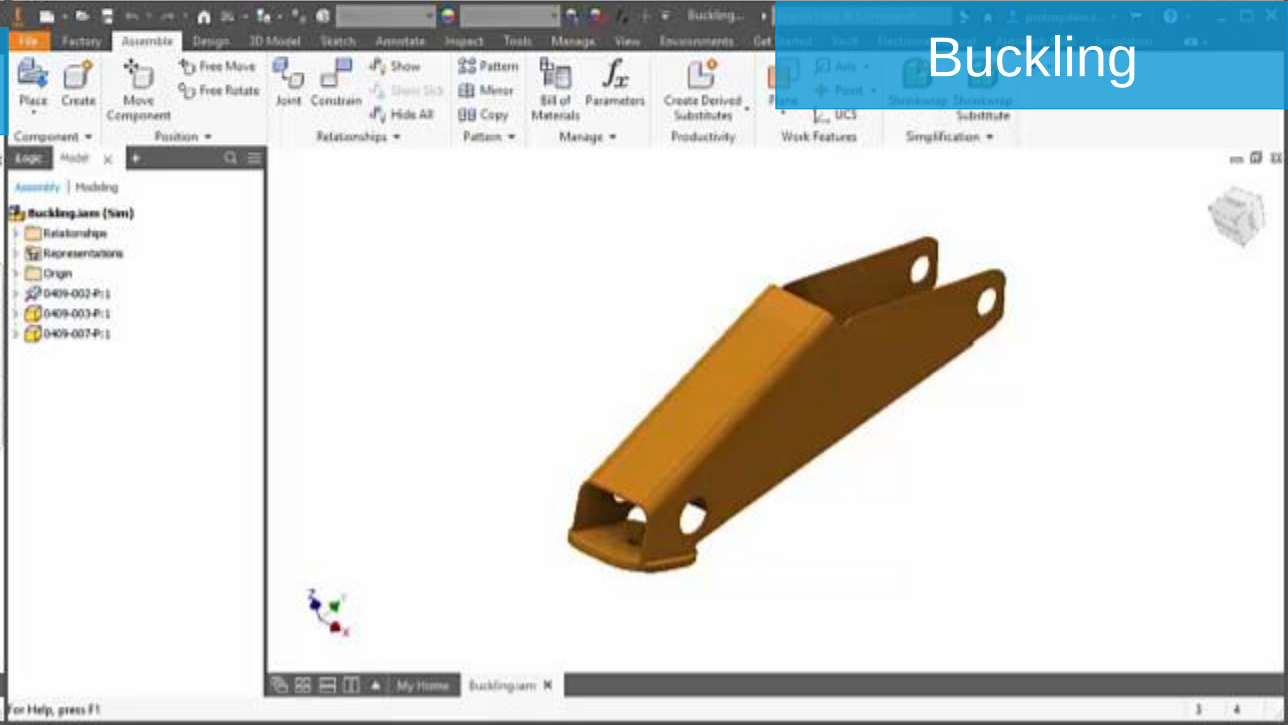
Thermal Stress

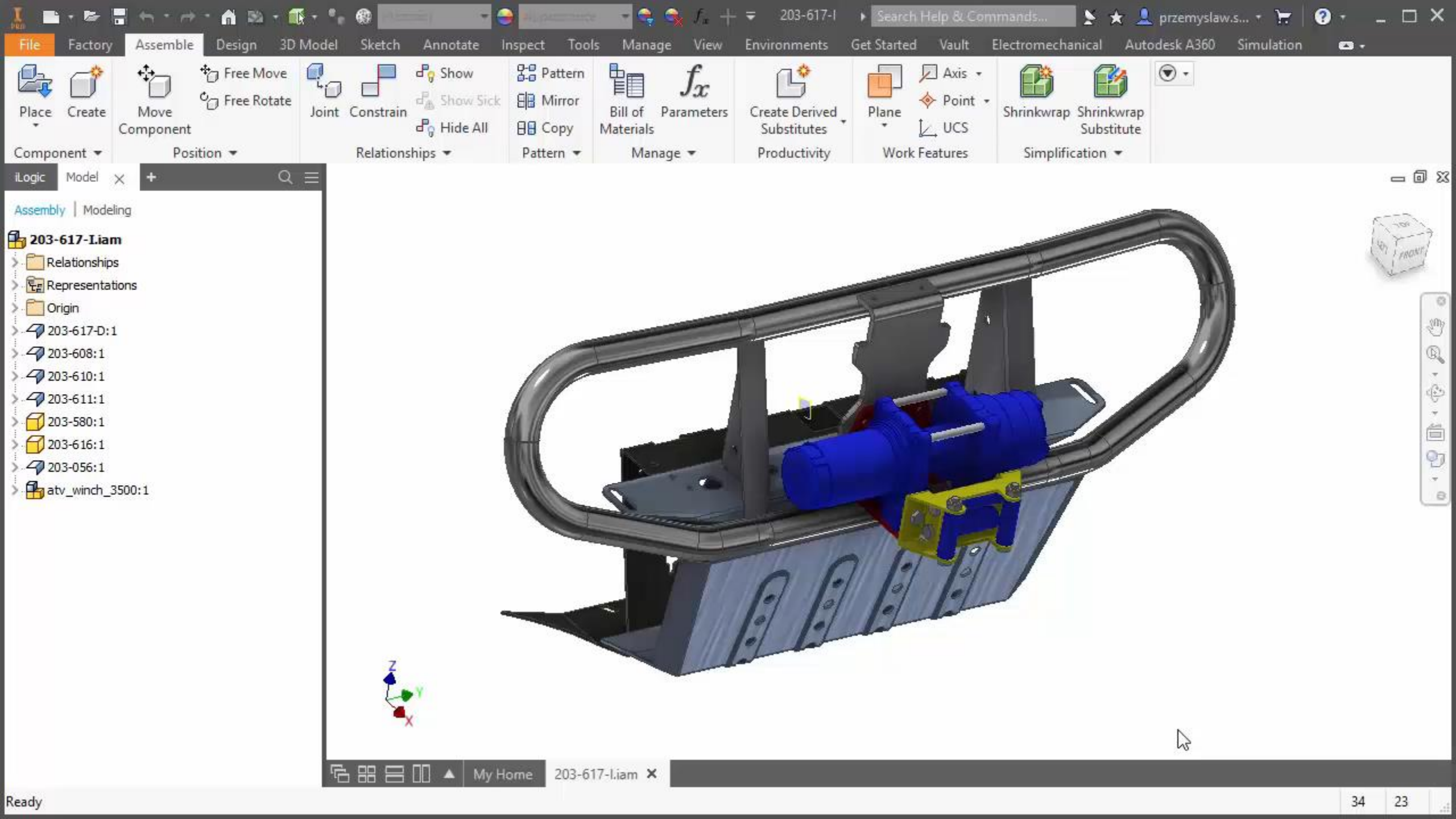


Fatigue



Buckling

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File
Factory
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Environments
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Vault
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Autodesk A360
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Axis
Point
UCS
Shrinkwrap
Shrinkwrap Substitute
Component
Position
Relationships
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Manage
Productivity
Work Features
Simplification
iLogic
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Assembly
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203-617-I.iam
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Representations
Origin
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203-608:1
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203-611:1
203-580:1
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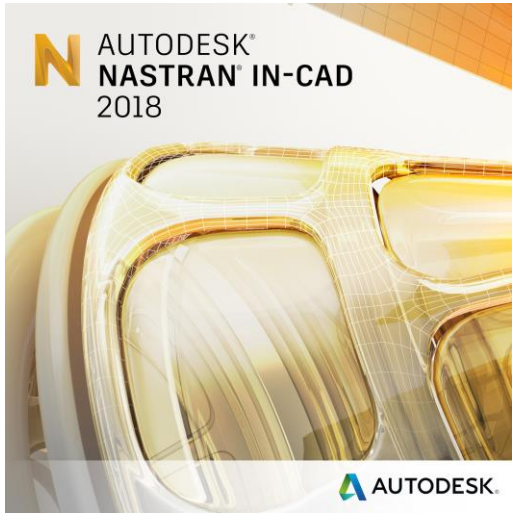

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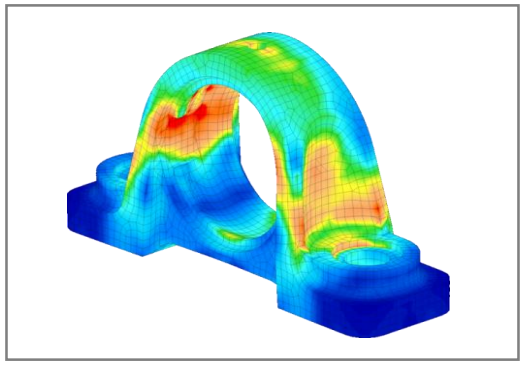
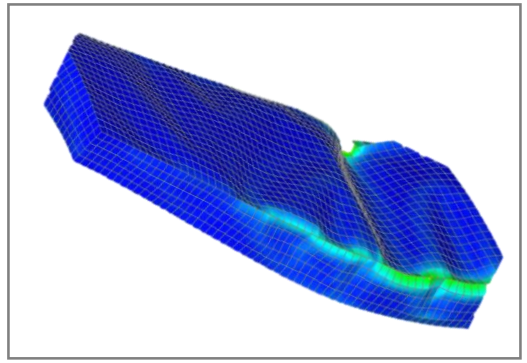


Buckling



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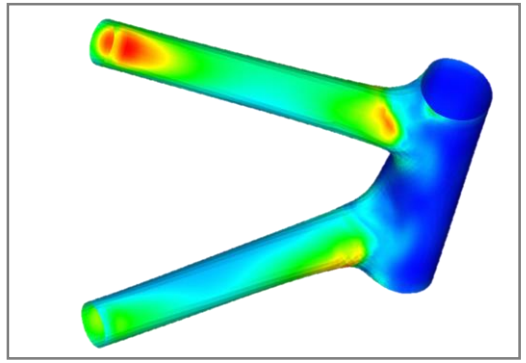

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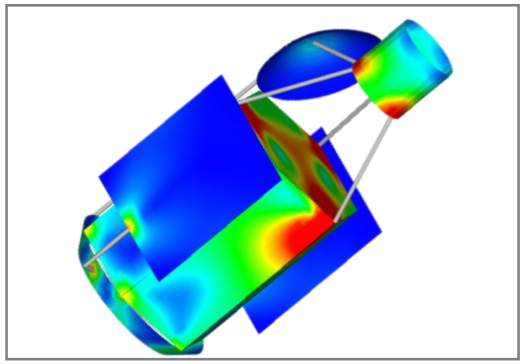
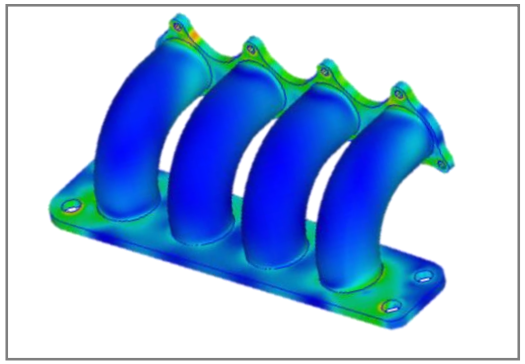
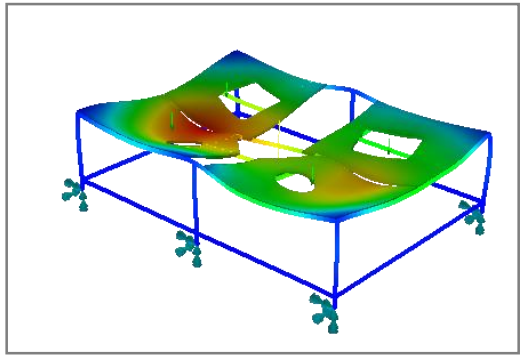


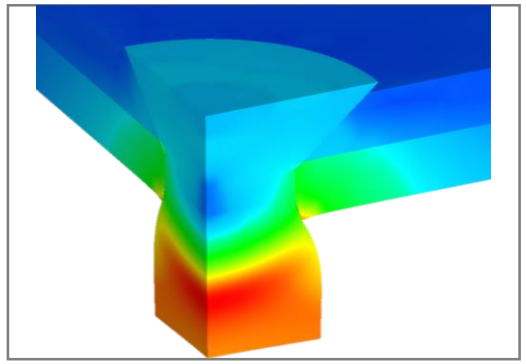
Thermal Stress



Frame Analysis



Nonlinear Statics



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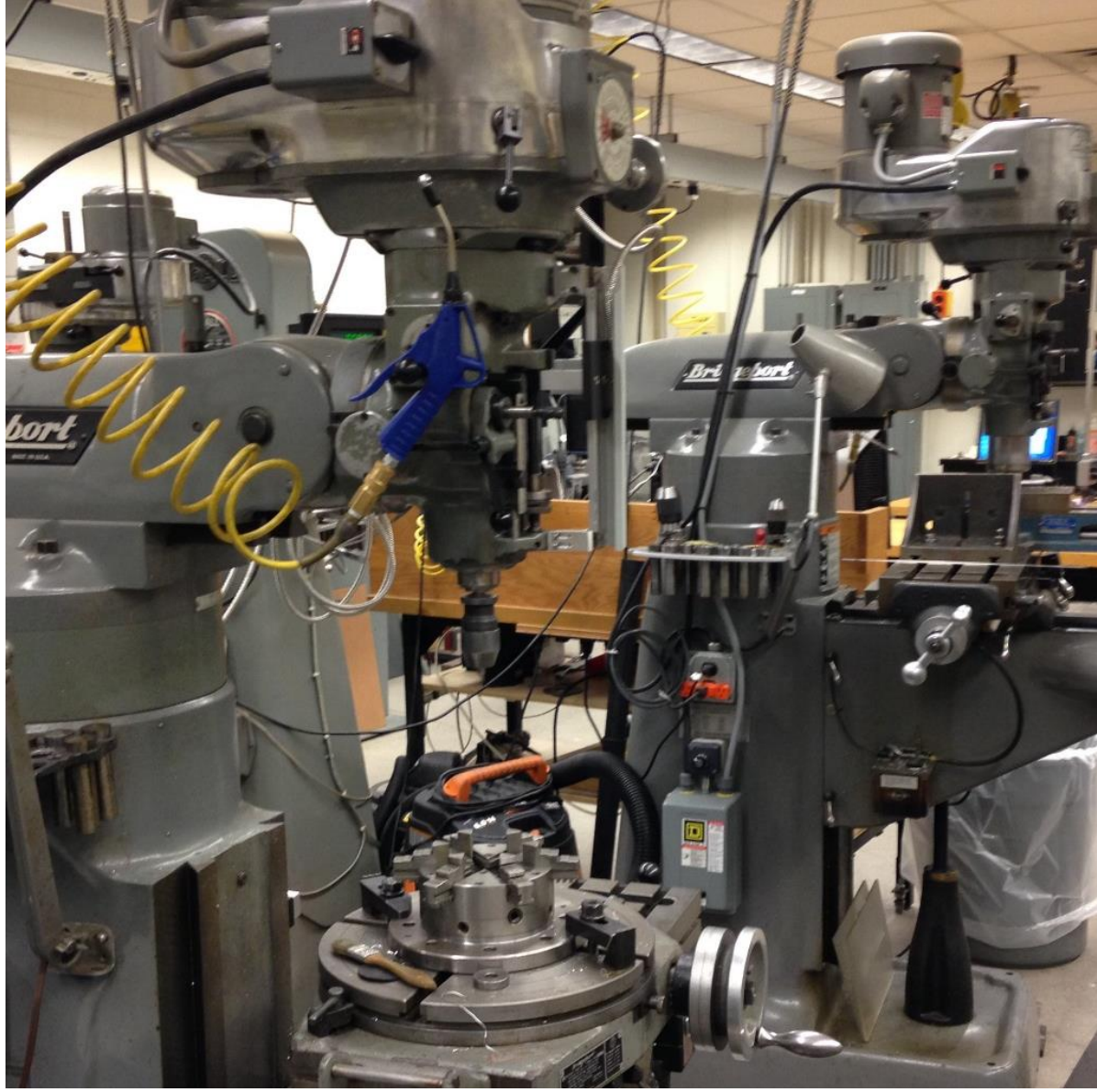
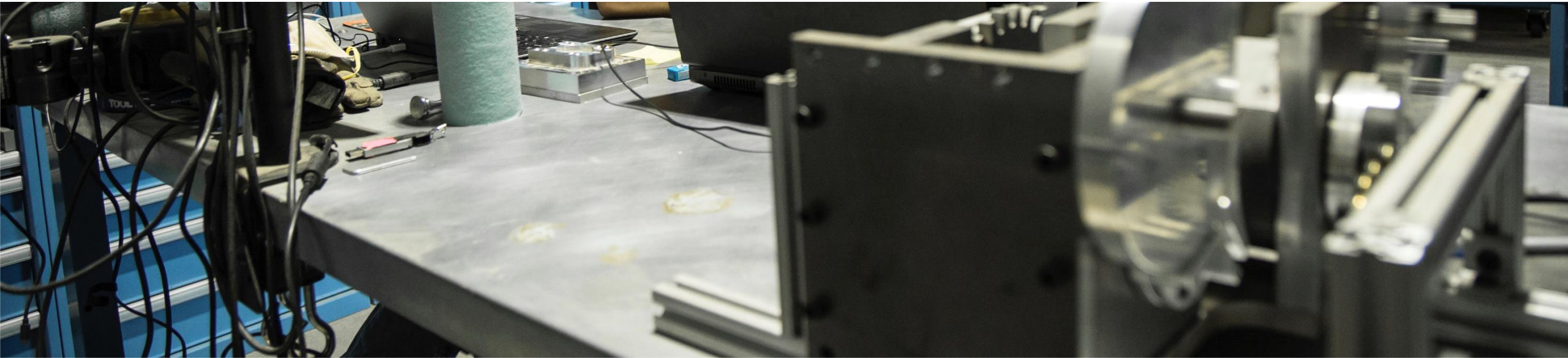
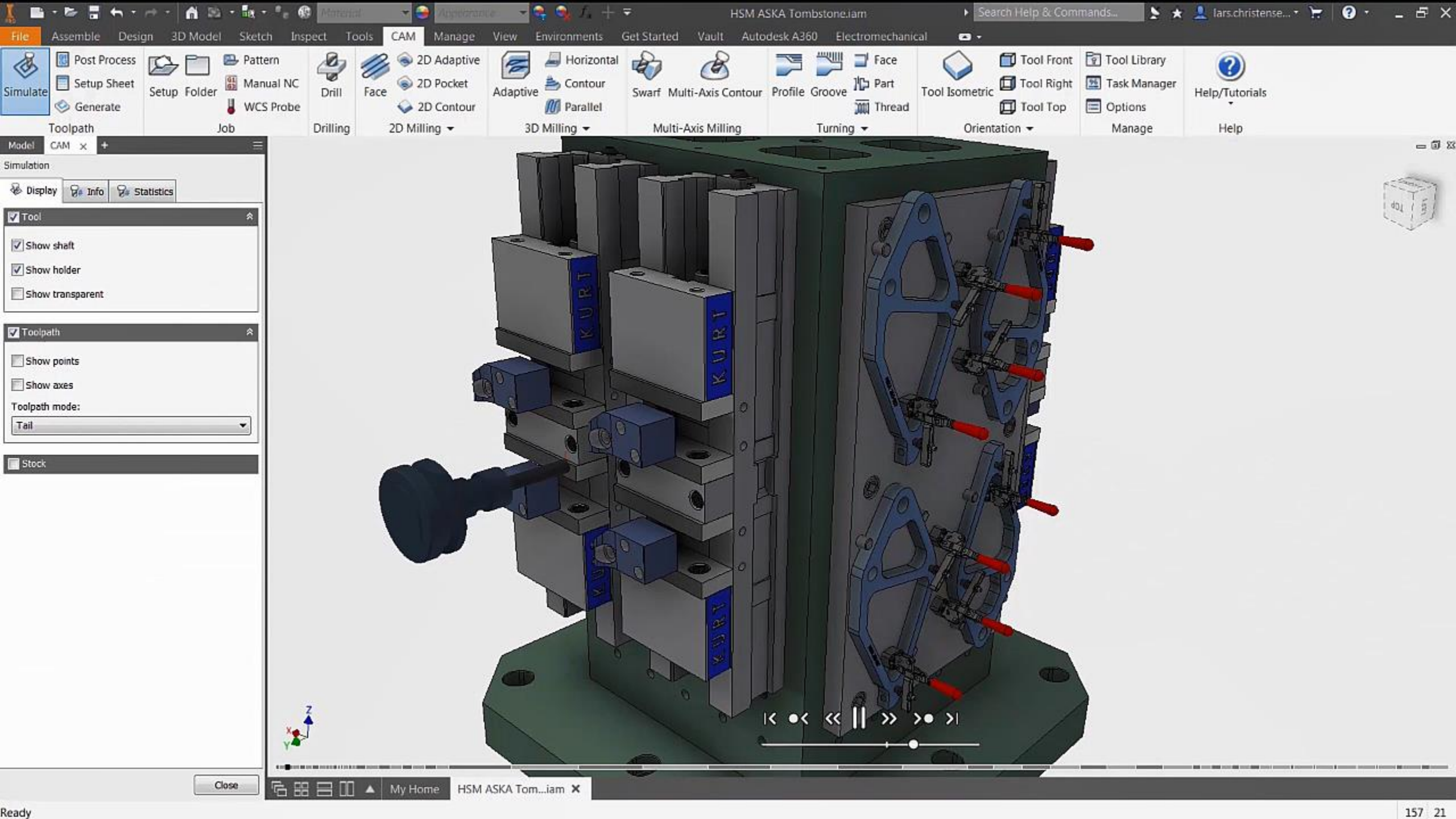


MAKE

DESIGN & MAKE




HSM ASKA Tombstone.iam
Search Help & Commands...
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Environments
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Vault
Autodesk A360
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2D Pocket
2D Contour
2D Milling
Adaptive
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3D Milling
Swarf
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Info
Statistics
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Show holder
Show transparent
Toolpath
Show points
Show axes
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HSM ASKA Tom...iam
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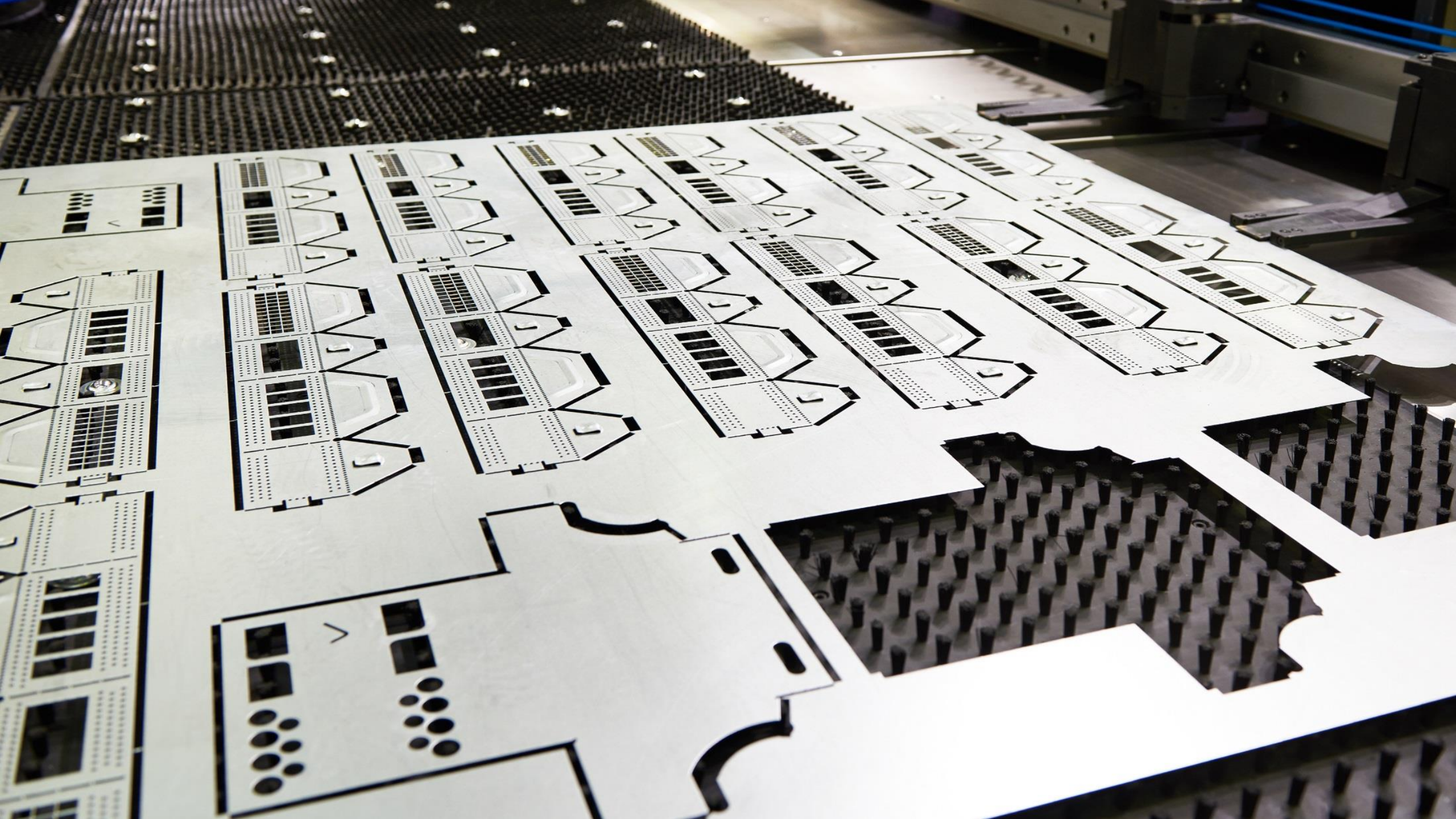
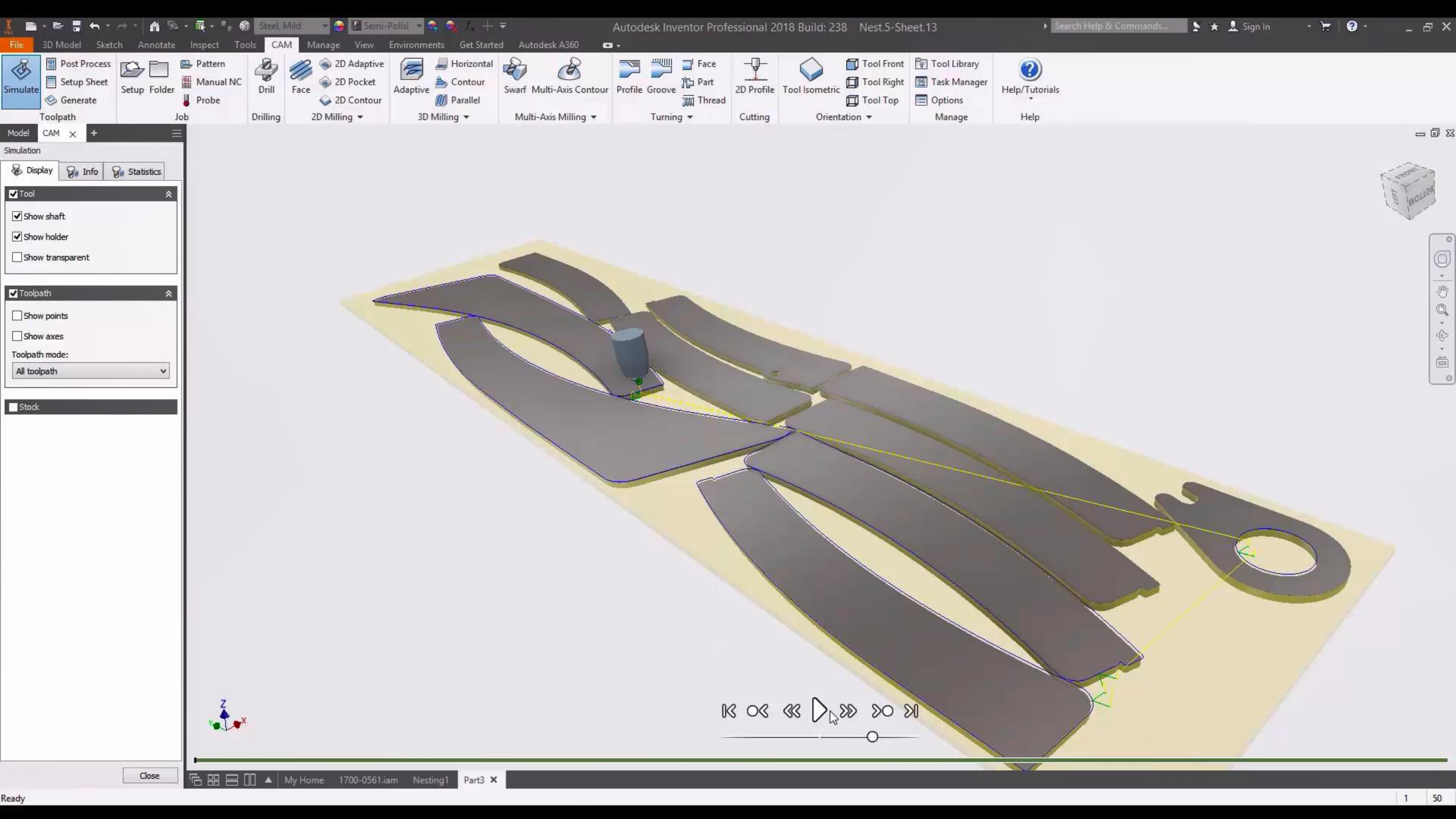
21




Autodesk Inventor Professional 2018 Build: 238 Nest.5-Sheet.13
File 3D Model Sketch Annotate Inspect Tools CAM Manage View Environments Get Started Autodesk A360
Simulate Post Process Setup Sheet Generate Toolpath
Setup Folder Pattern Manual NC Probe Job
Drill Drilling
Face 2D Adaptive 2D Pocket 2D Contour 2D Milling
Adaptive Horizontal Contour Parallel 3D Milling
Swarf Multi-Axis Contour Multi-Axis Milling
Profile Groove Face Part Thread Turning
2D Profile Cutting
Tool Isometric Tool Front Tool Right Tool Top Orientation
Tool Library Task Manager Options Manage
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Model CAM
Simulation
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Tool
Show shaft
Show holder
Show transparent
Toolpath
Show points
Show axes
Toolpath mode:
All toolpath
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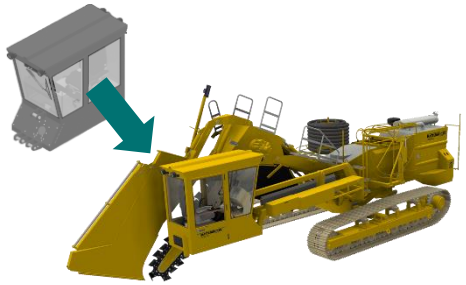
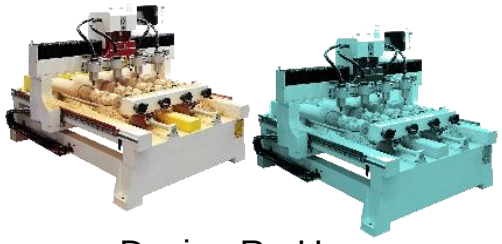


Design Experience



Design Re-Use

Factory Design

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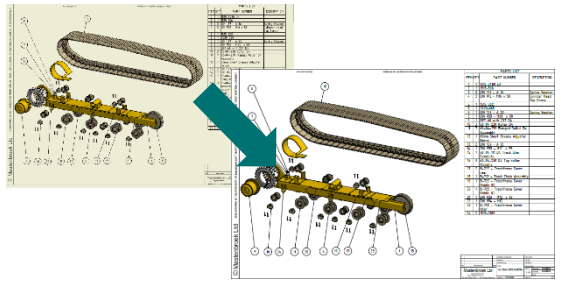

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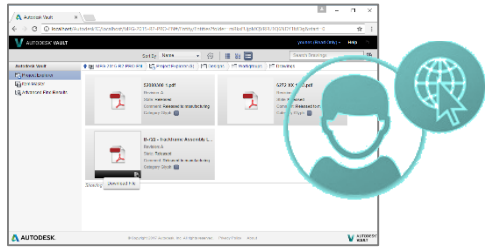
Task Automation

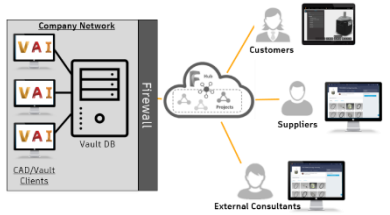
Flexible Security Model

COLLABORATION



Web Client

Shared Views



Design Collaboration

Shared Data

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File Edit View Go Tools Actions Help

New Standard File ... | Edit File Datasheet ... | Report... | Plot... | Check In... | Find... | Share View | Search Help

Default View | Layout | Workspace Sync... | Change Category... | Change State... | Change Revision...

Home

- Item & BOM
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  - AnyCAD-001
  - AnyCAD-002
  - AnyCAD-011
  - AutoCAD Plansätze
  - Datenimport
  - Diverse
  - Factory Asset Library
  - Factory Asset Library Source
  - Factory Assets
  - Innenausbau
  - MJ
  - Osgood
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  - P-00022
  - P-00023
  - P-00024
  - P-00025
  - P-00026
  - Parker
    - Inventor Files
  - SR-0001

My Worklist

- ECO-000019 (10.04.2016)
- ECO-000020 (11.04.2016)

My Shortcuts

- Vane Pump
- Arm System_Finish.iam
- N19-30184.iam

Add new group

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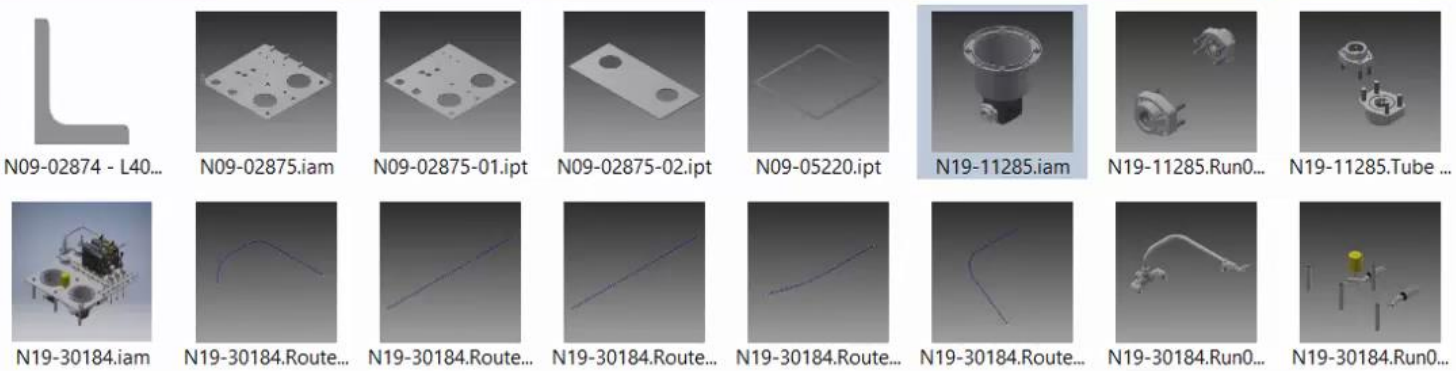

History | Uses | Where Used | Change Order | Preview | CAD BOM | Datasheet | PLM View | TEAM View | Web View

Latest | Work in Progress

FileName	Thumbnail	Revision	Title	Status (Historisch)
N19-11285.iam		A	N19-11285	Work in Progress
T7DS-00M0.iam		A	T7DS-00M0	In Review
T7DS-00M0 (Cartridge Assembly).iam		B	Cartridge Assembly	Released

Properties

N19-11285.iam

System

Änderungsdatum	06.12.2017 13:04
Anfängliche Gene...	
Anfängliche Veröf...	
Anzahl Anlagen	0
Artikel kann zuge...	True
Ausgech. lokale S...	
Ausgecheckt	06.12.2017 13:04
Ausgecheckt (PC)	
Ausgecheckt von	
Autor	Administrator
Besitzer	MUC1RM6JC2\AUTO...
Datei Repliziert	True
Dateierweiterung	iam
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Eingecheckt	06.12.2017 13:04
Erstellt von	Administrator
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Freigegebene Rev...	False
Geleast bis	21.09.2017 09:14
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Lebenszyklus	Flexible Release Proc...
Lebenszyklus (Hist...	Flexible Release Proc...
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Name	N19-11285.iam
Neueste freigege...	False
Provider	Inventor
Revision	A
Revisionsschema	Alphabetische Indexi...

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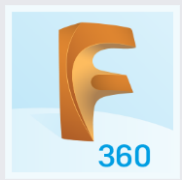

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- Plant 3D
- Map 3D
- Raster Design

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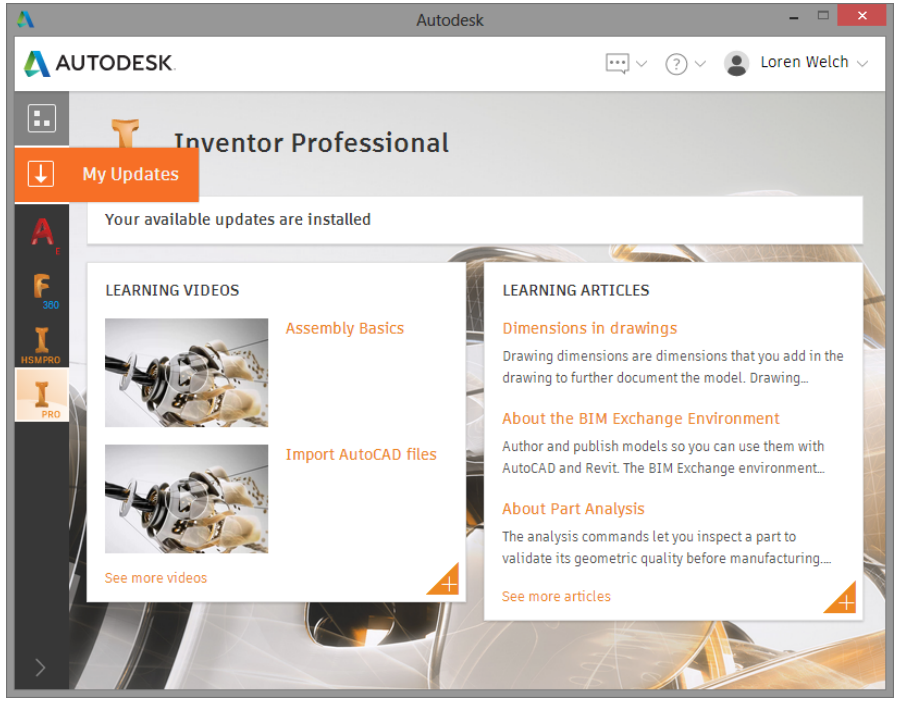
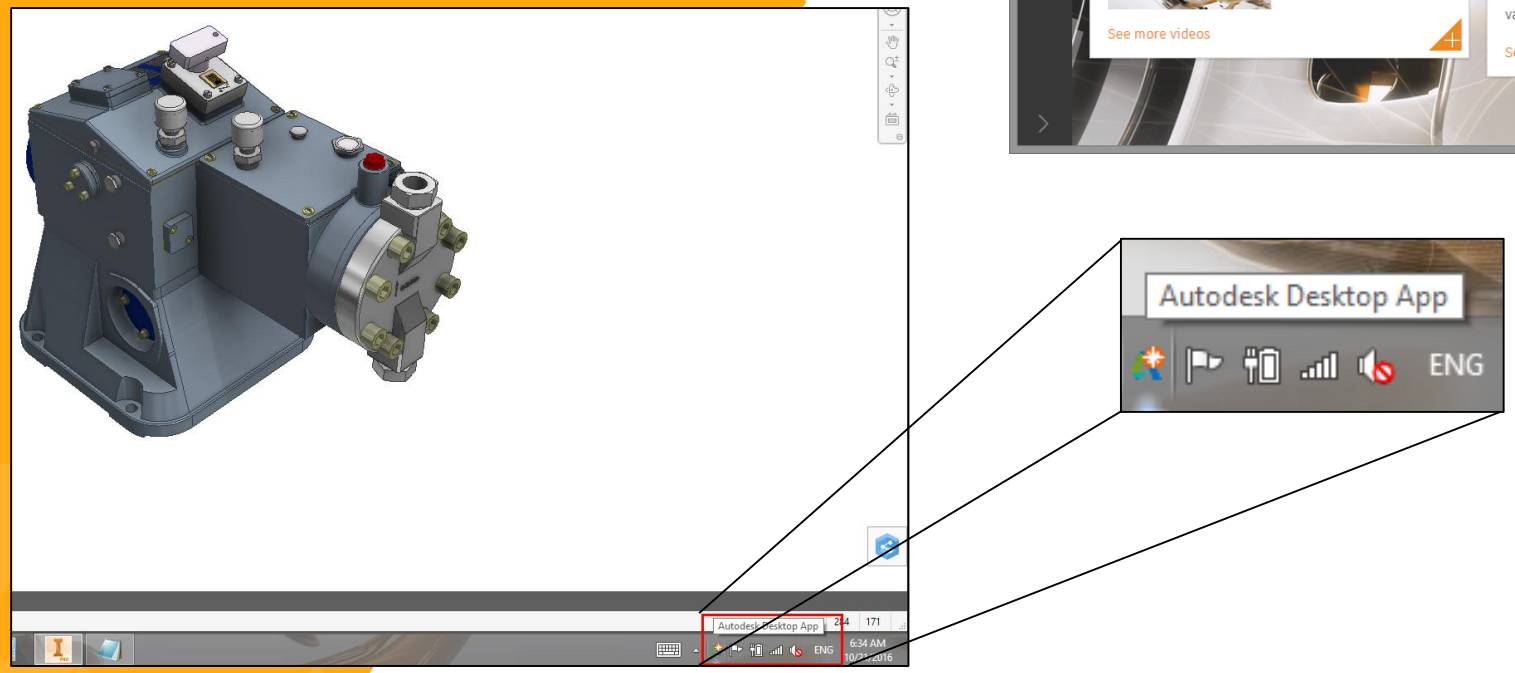
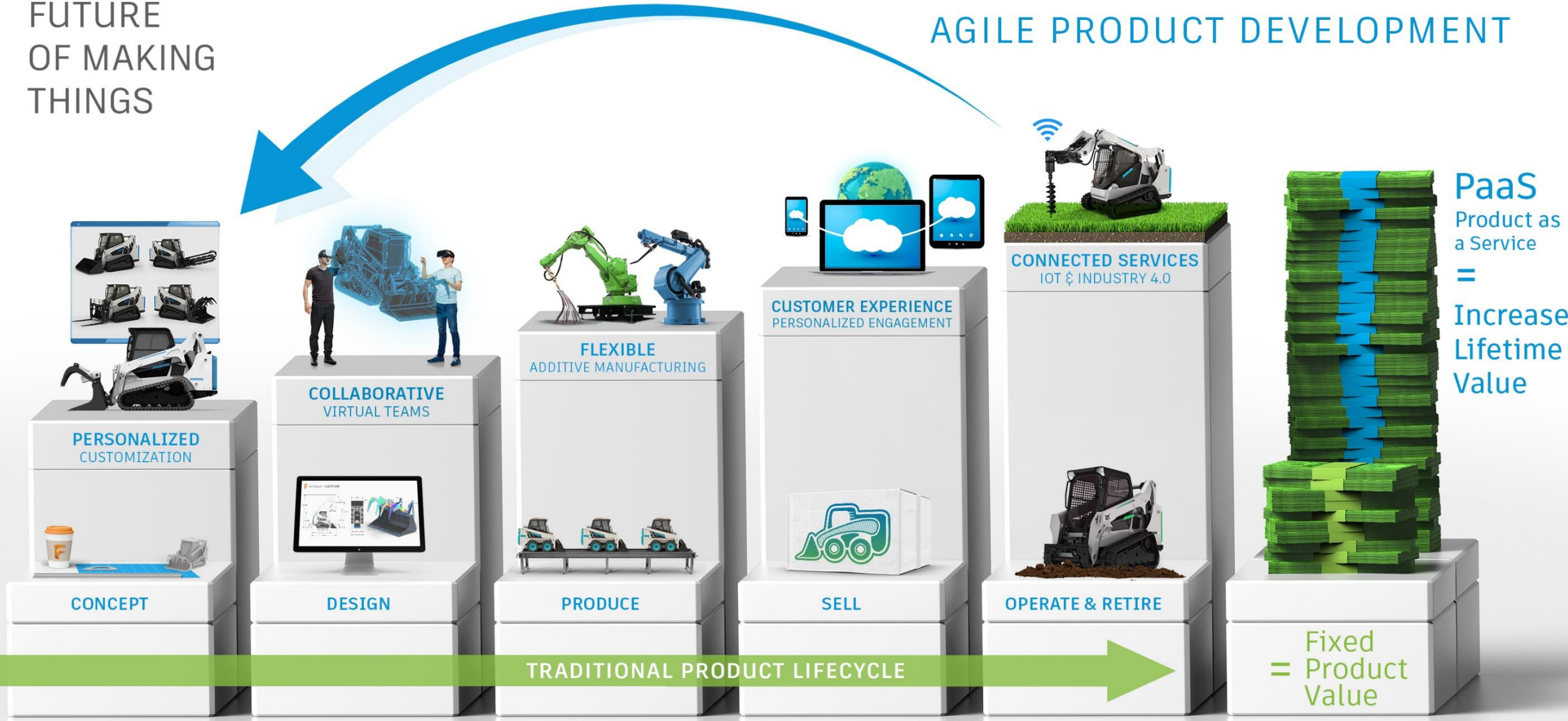




THE FUTURE OF MAKING THINGS

AGILE PRODUCT DEVELOPMENT



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