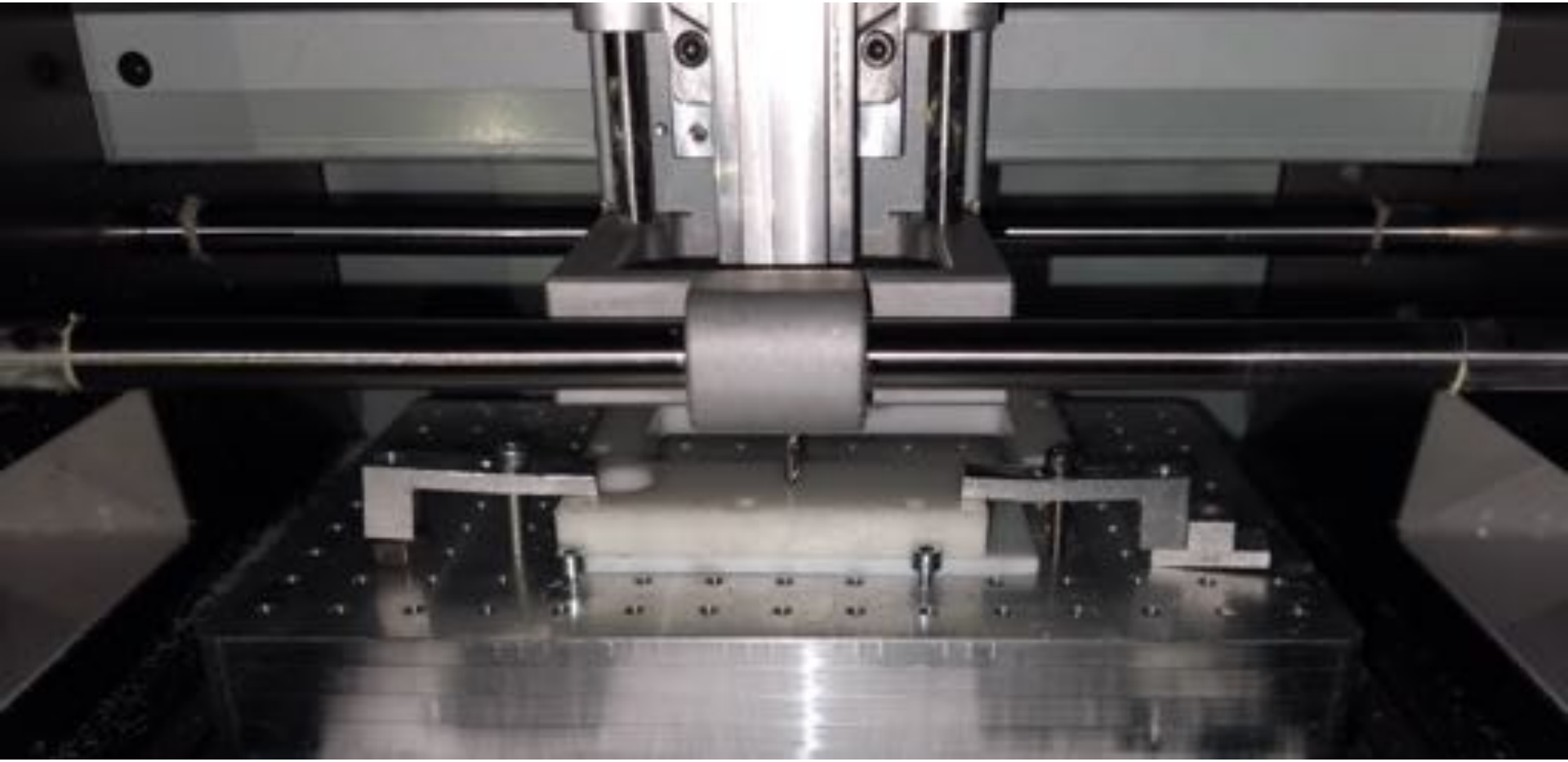
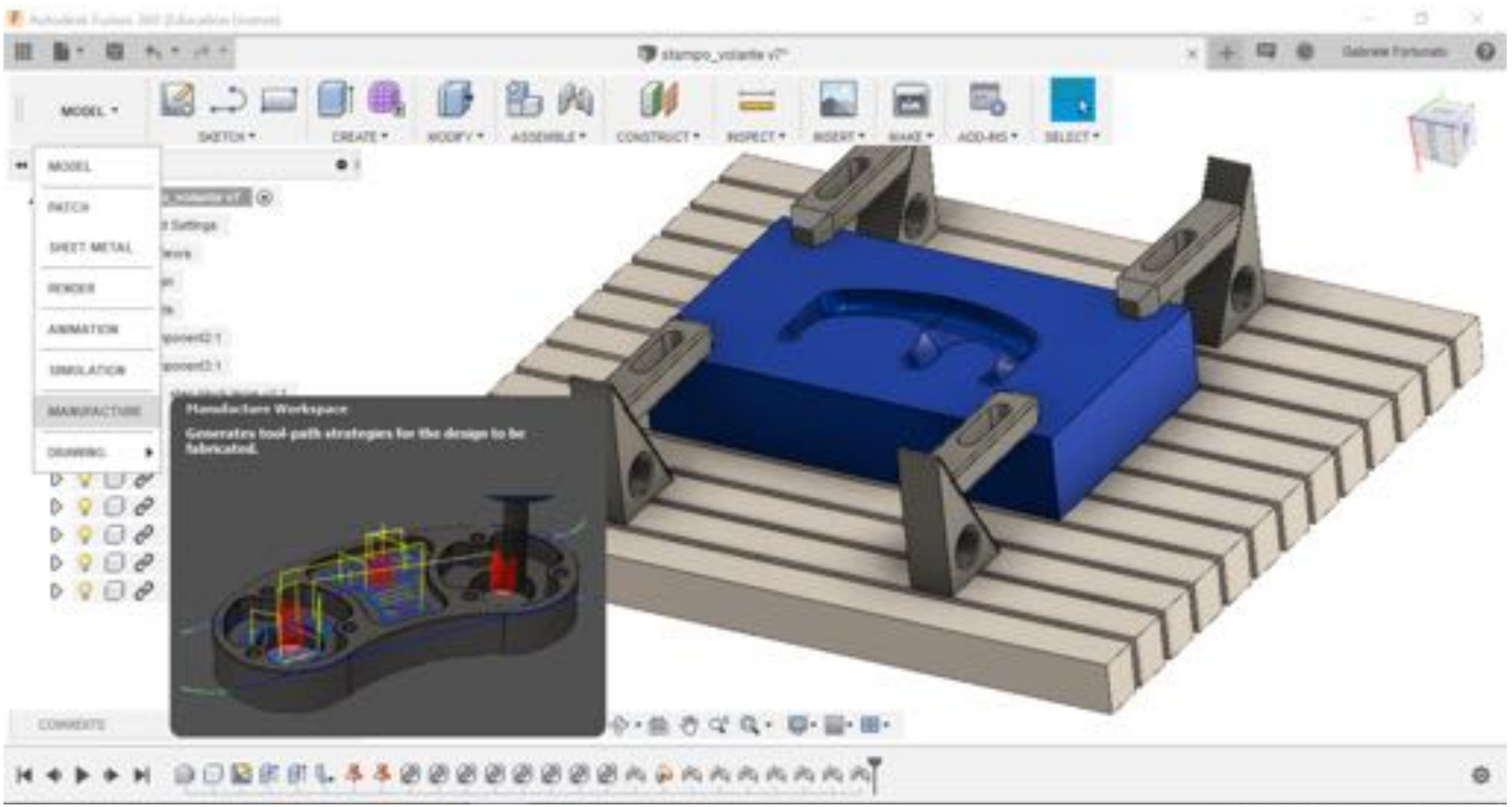
Computer Aided Manufacturing

Autodesk® Fusion 360

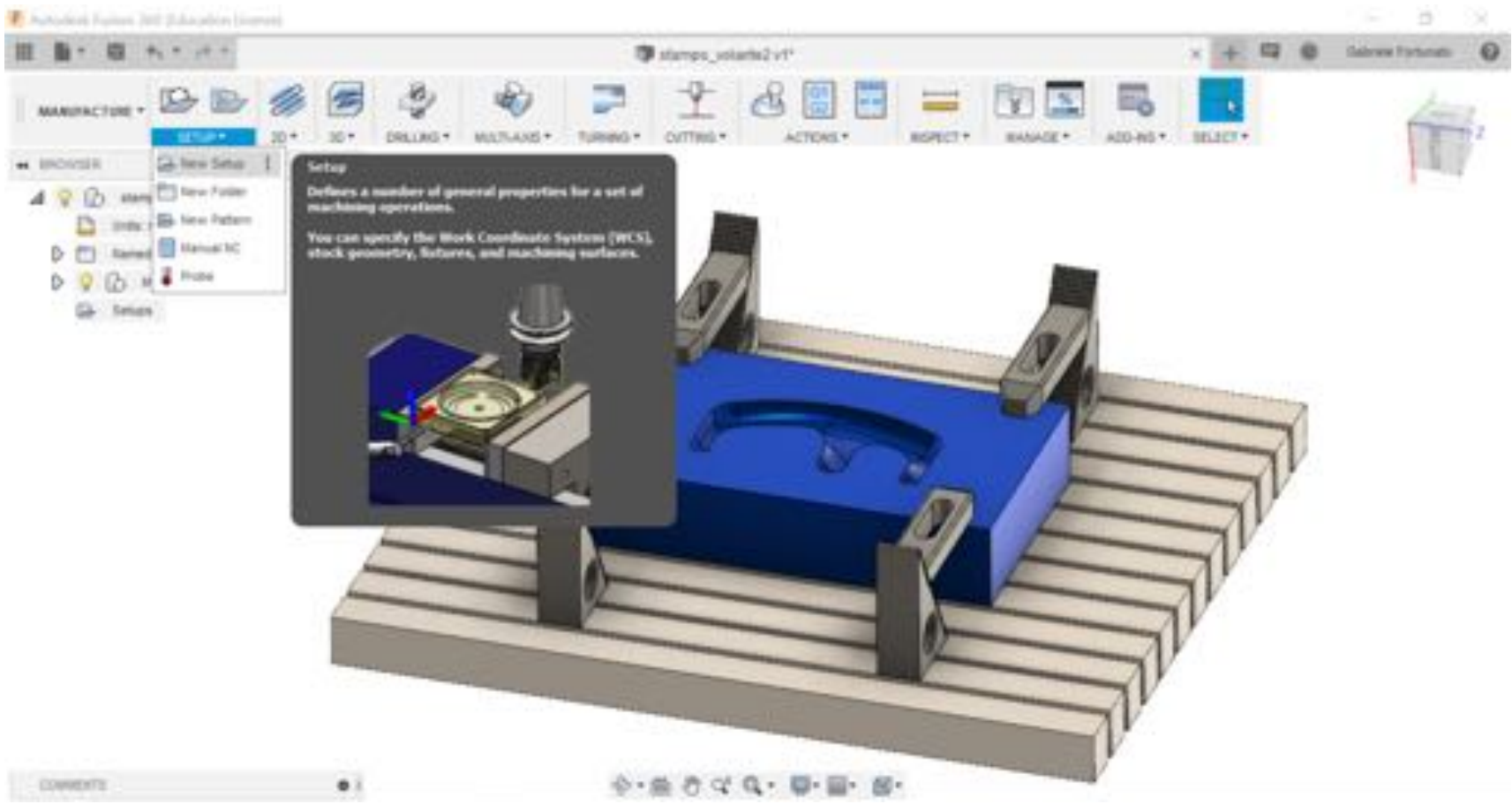


Example 1

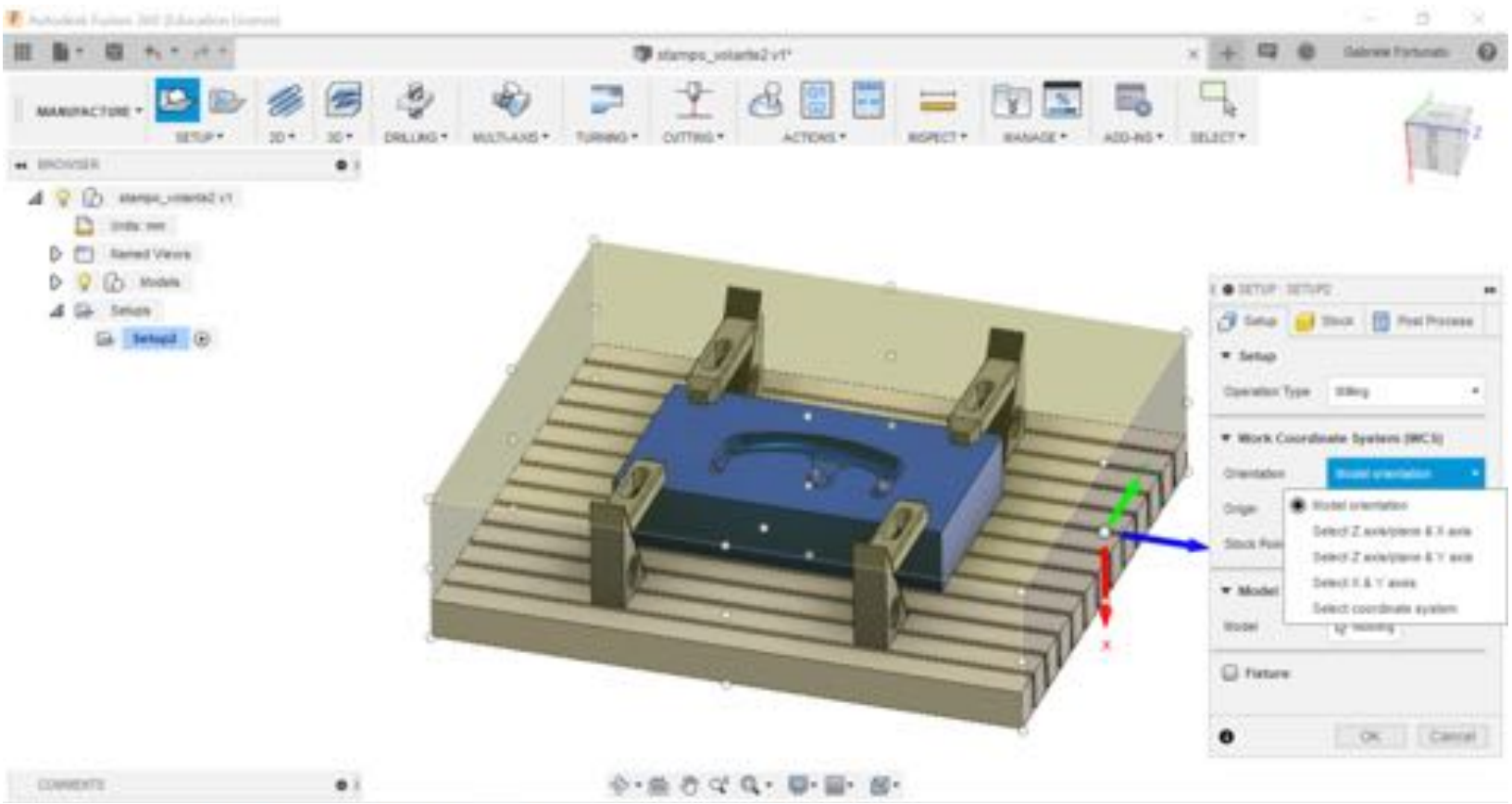
Open Manufacture



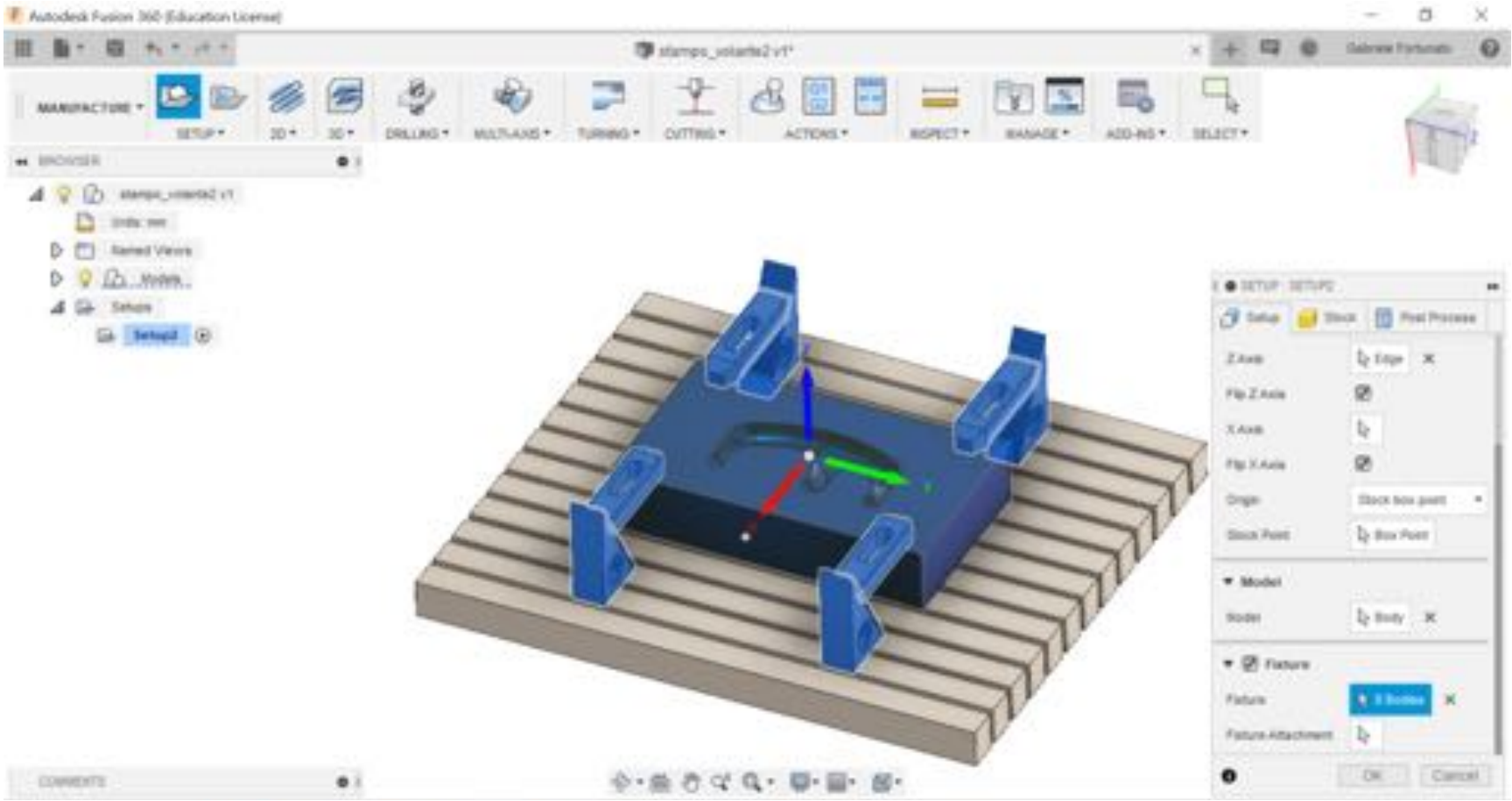
Create a new setup



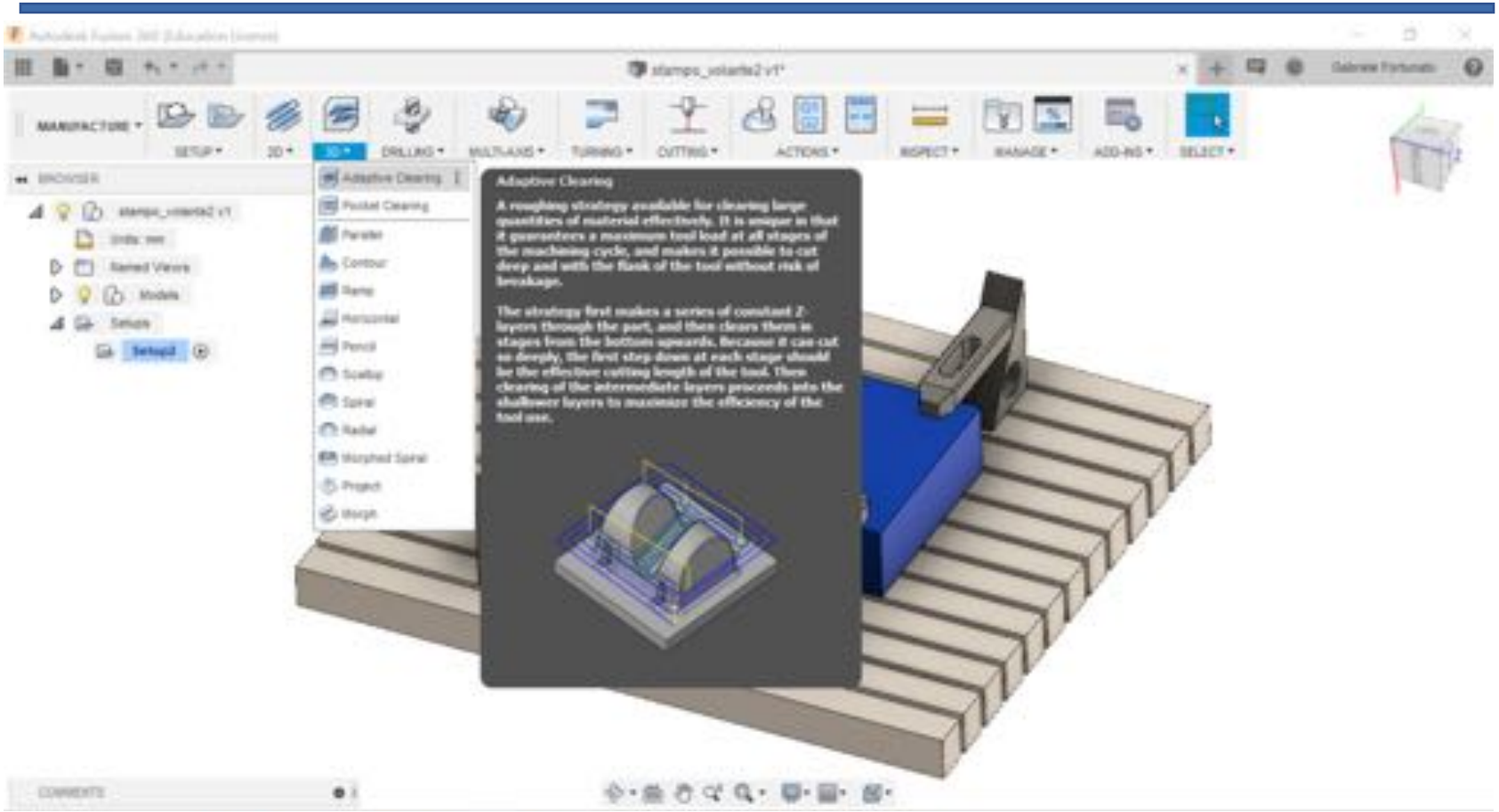
Define model, coordinate system, fixtures and stock dimensions



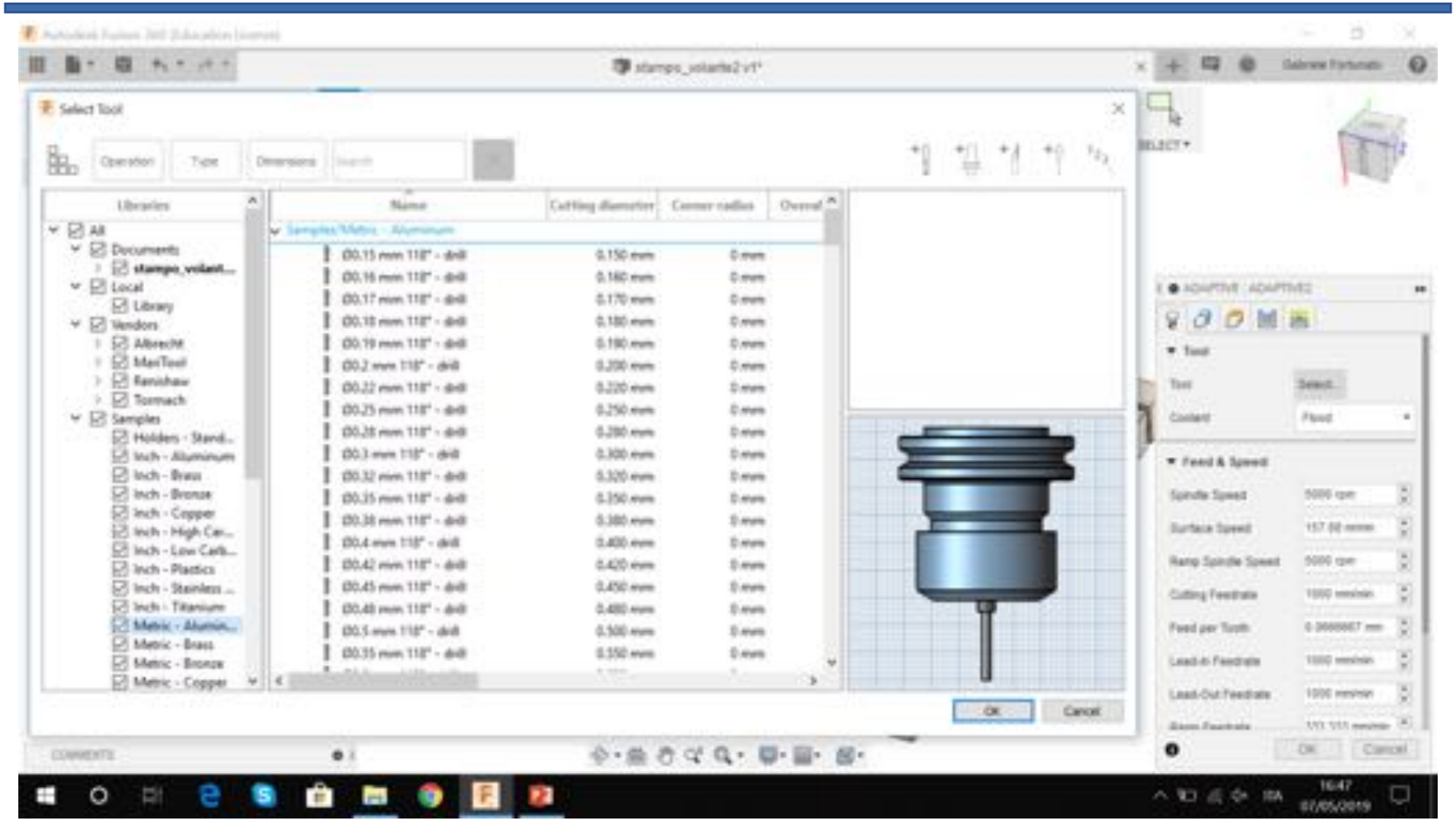
Define model, coordinate system, fixtures and stock dimensions



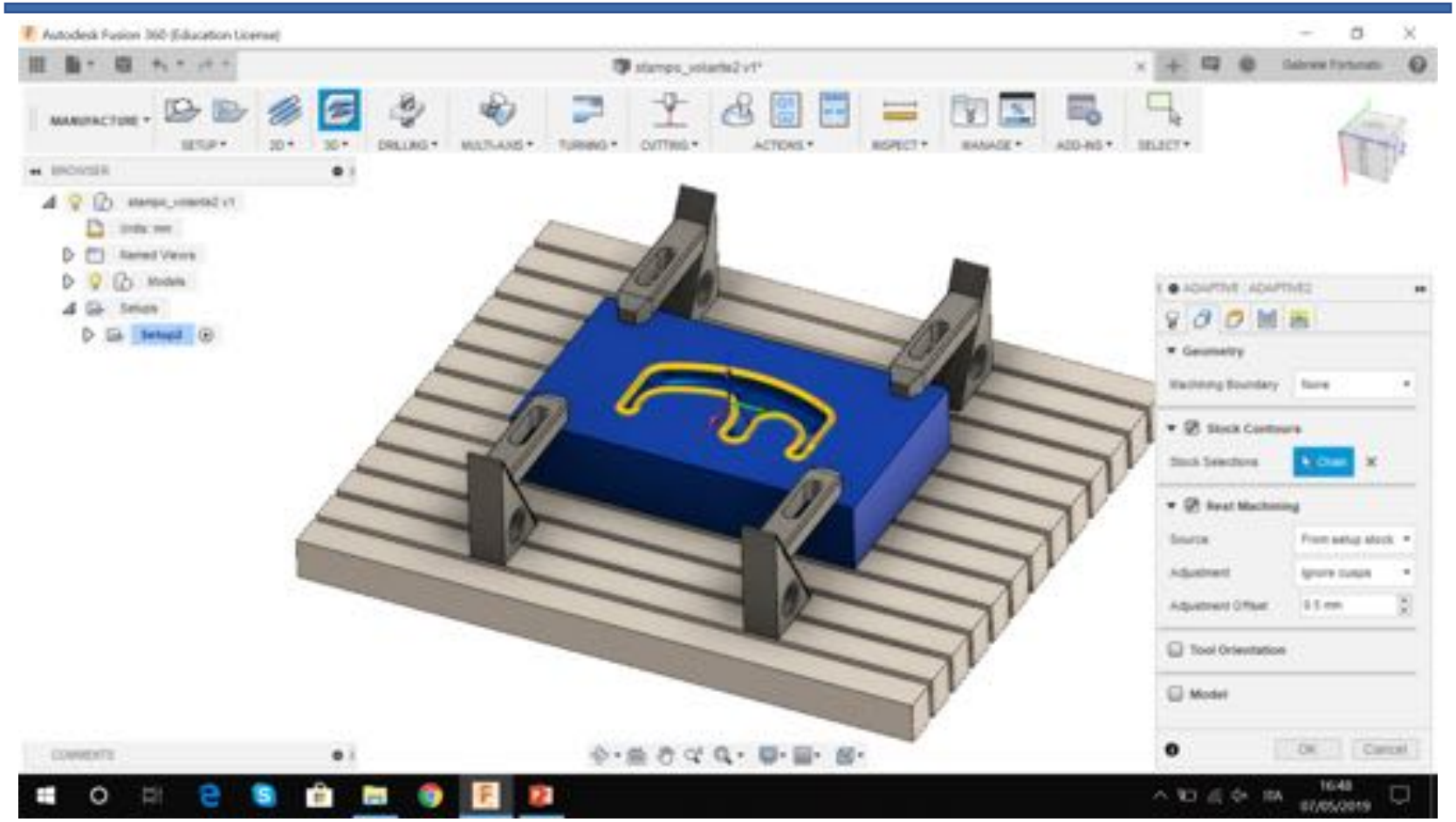
3D Adaptive Clearing



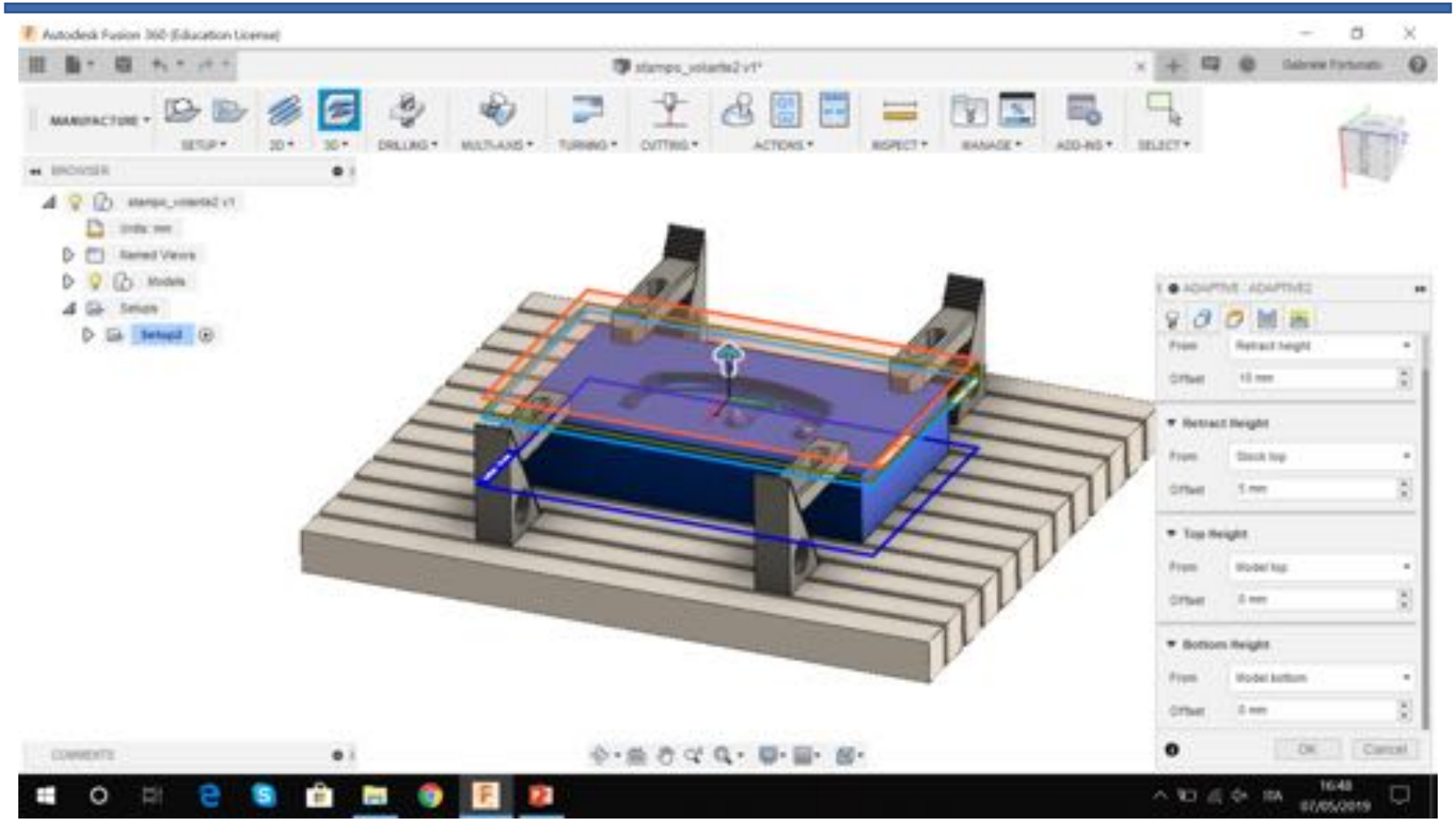
Select tool


Select Tool
Operation
Type
Dimensions
Libraries
All
Documents
Local
Library
Vendors
Samples
Name
Cutting diameter
Corner radius
OK
Cancel

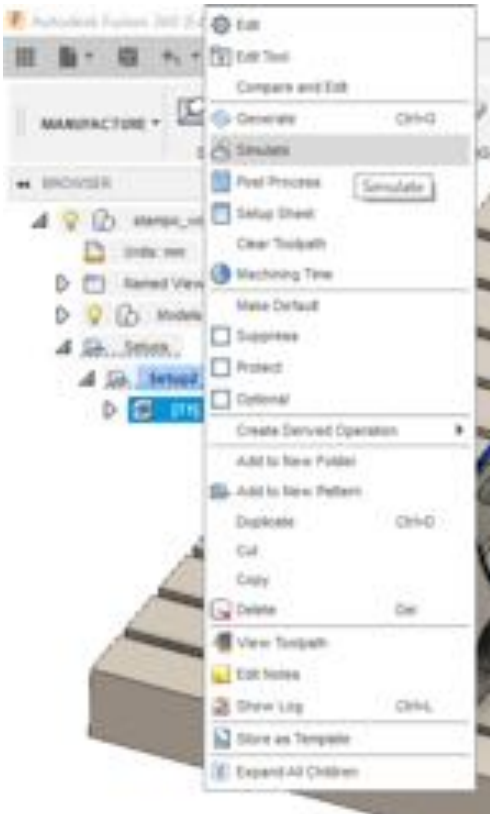
Select stock contours, heights and stock to leave

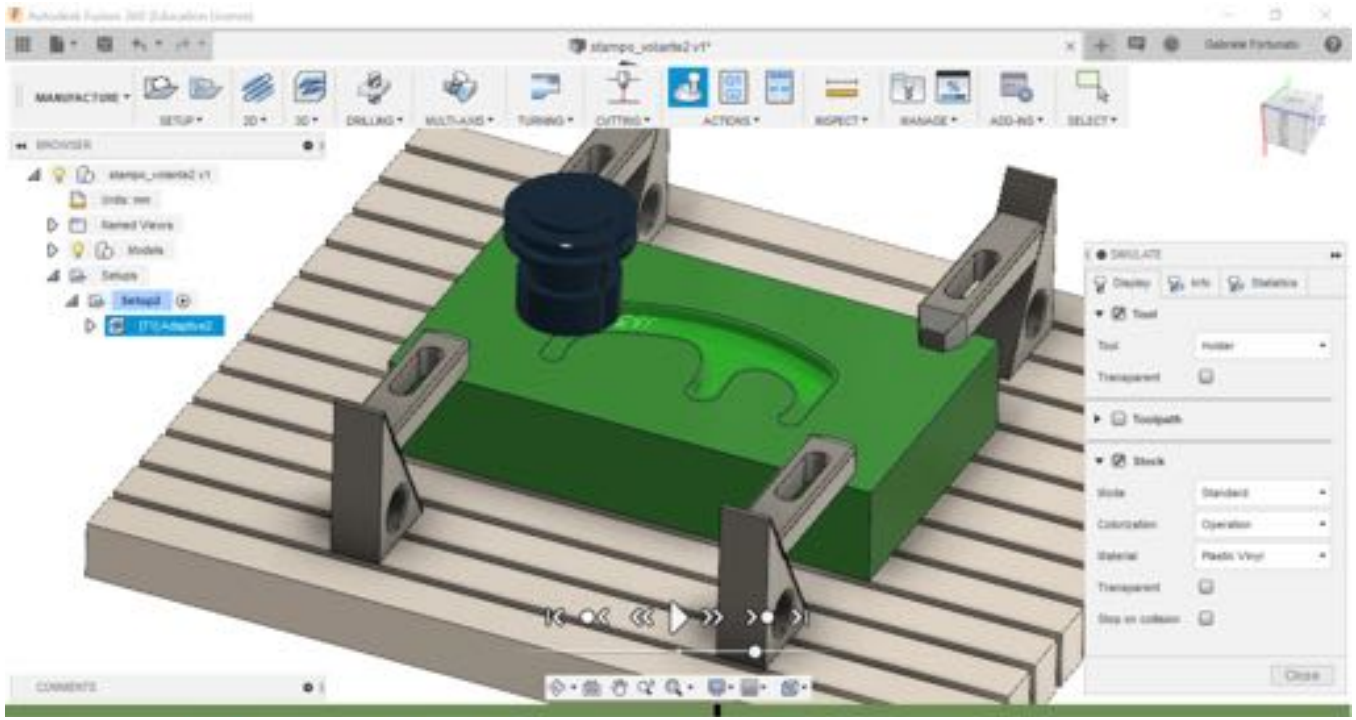


Select stock contours, heights and stock to leave

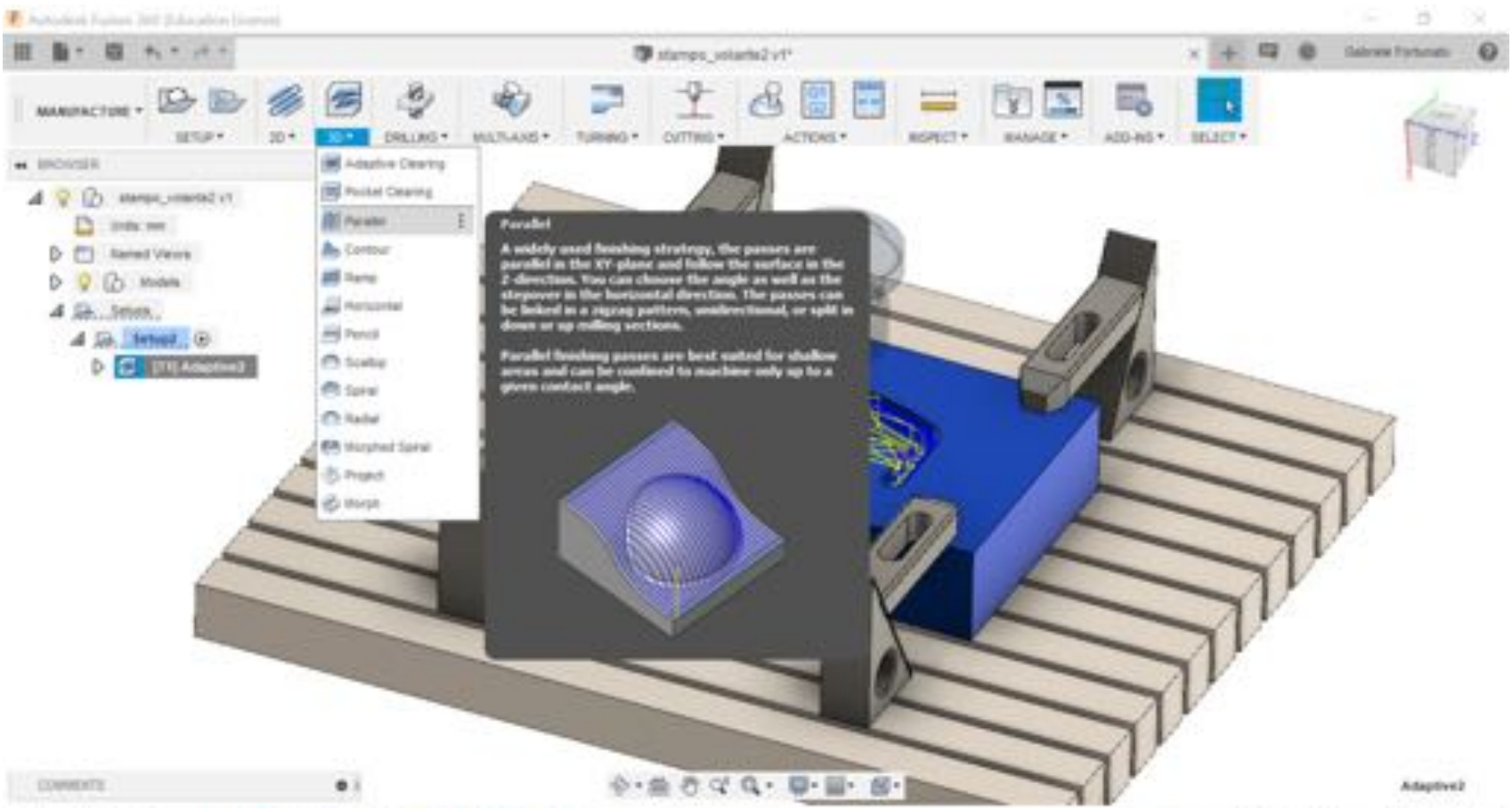


Simulation

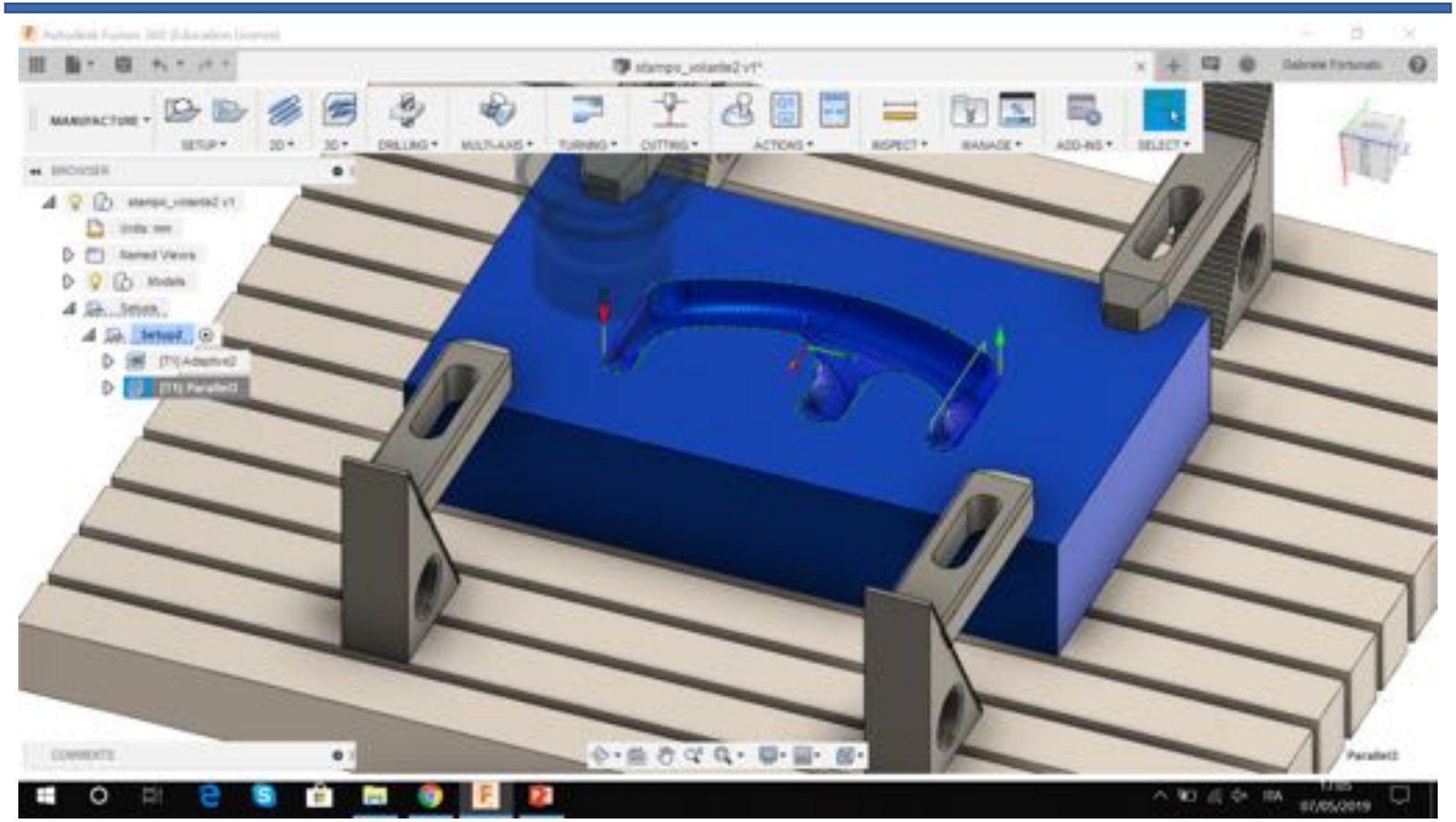

Edit
Edit Text
Compare and Edit
Generate
Simulate
Post Process
Setup Sheet
Clear Toolpath
Machining Time
Make Default
Suppress
Protect
Optional
Create Derived Operation
Add to New Folder
Add to New Pattern
Duplicate
Cut
Copy
Delete
View Toolpath
Edit Notes
Show Log
Store as Template
Expand All Children



Surface finishing: Parallel

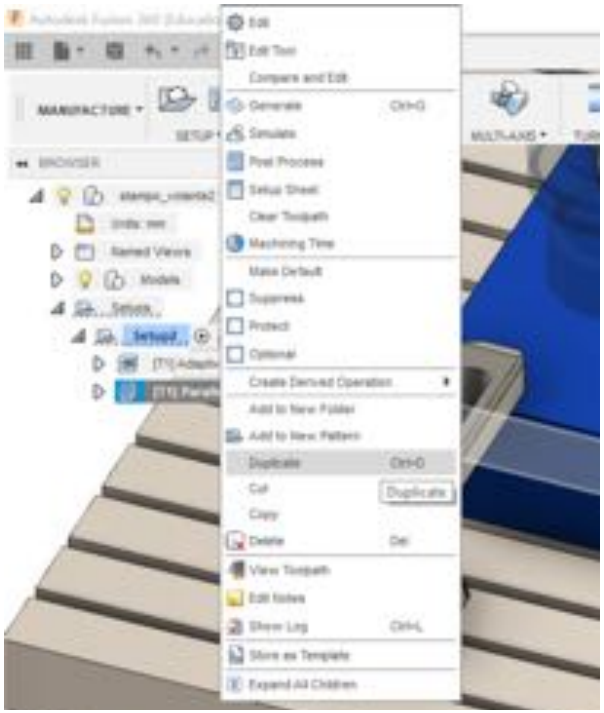


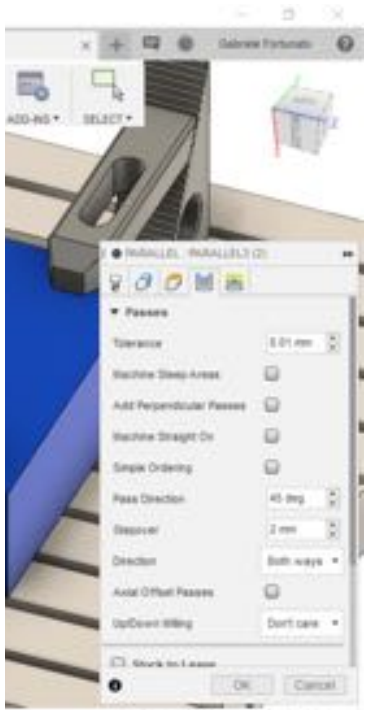
Select geometry



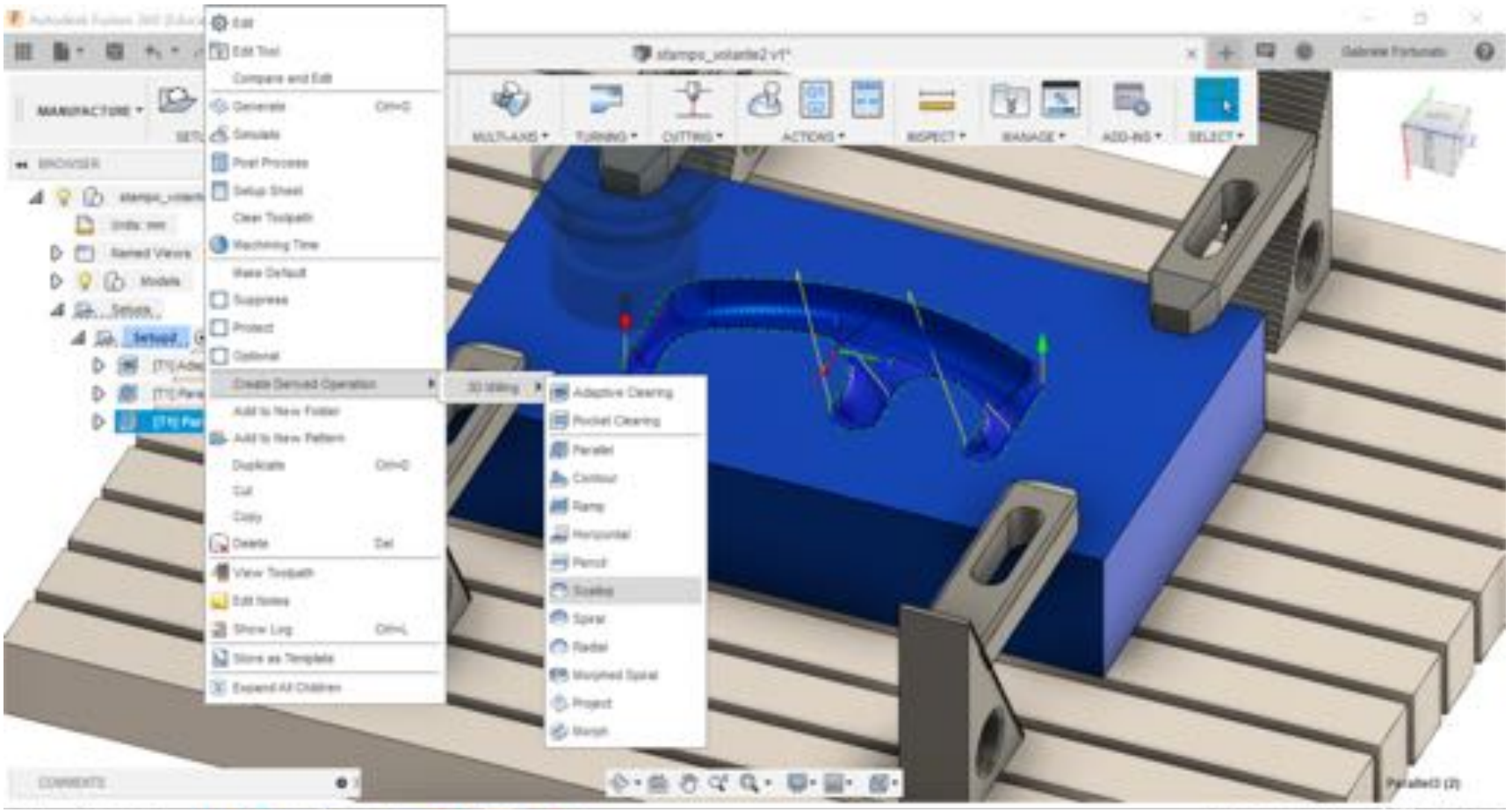
Surface finishing: Parallel

- Duplicate current Parallel finishing
- Change ‘Pass direction’ in ‘Passes’ tab to 45°

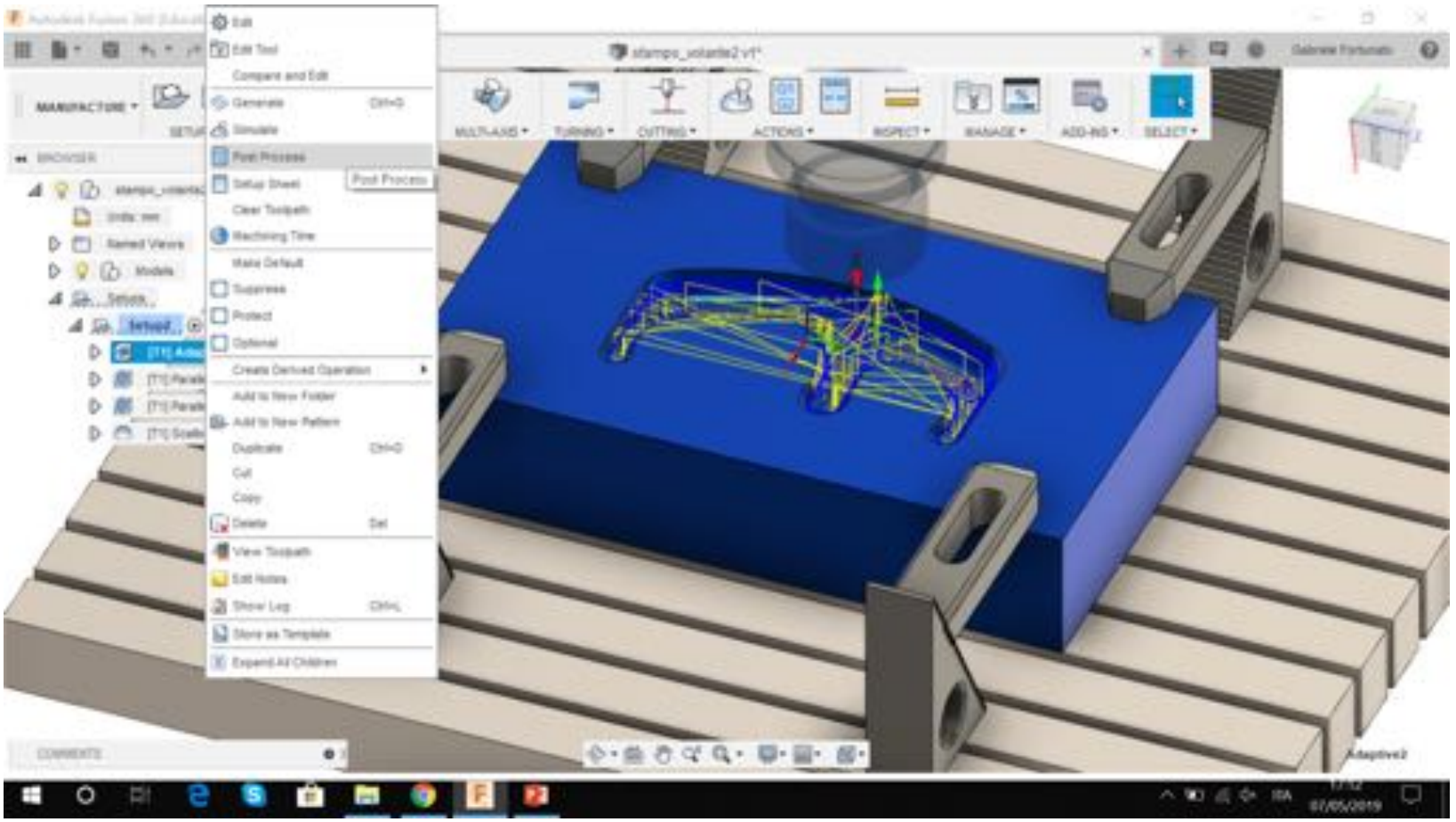




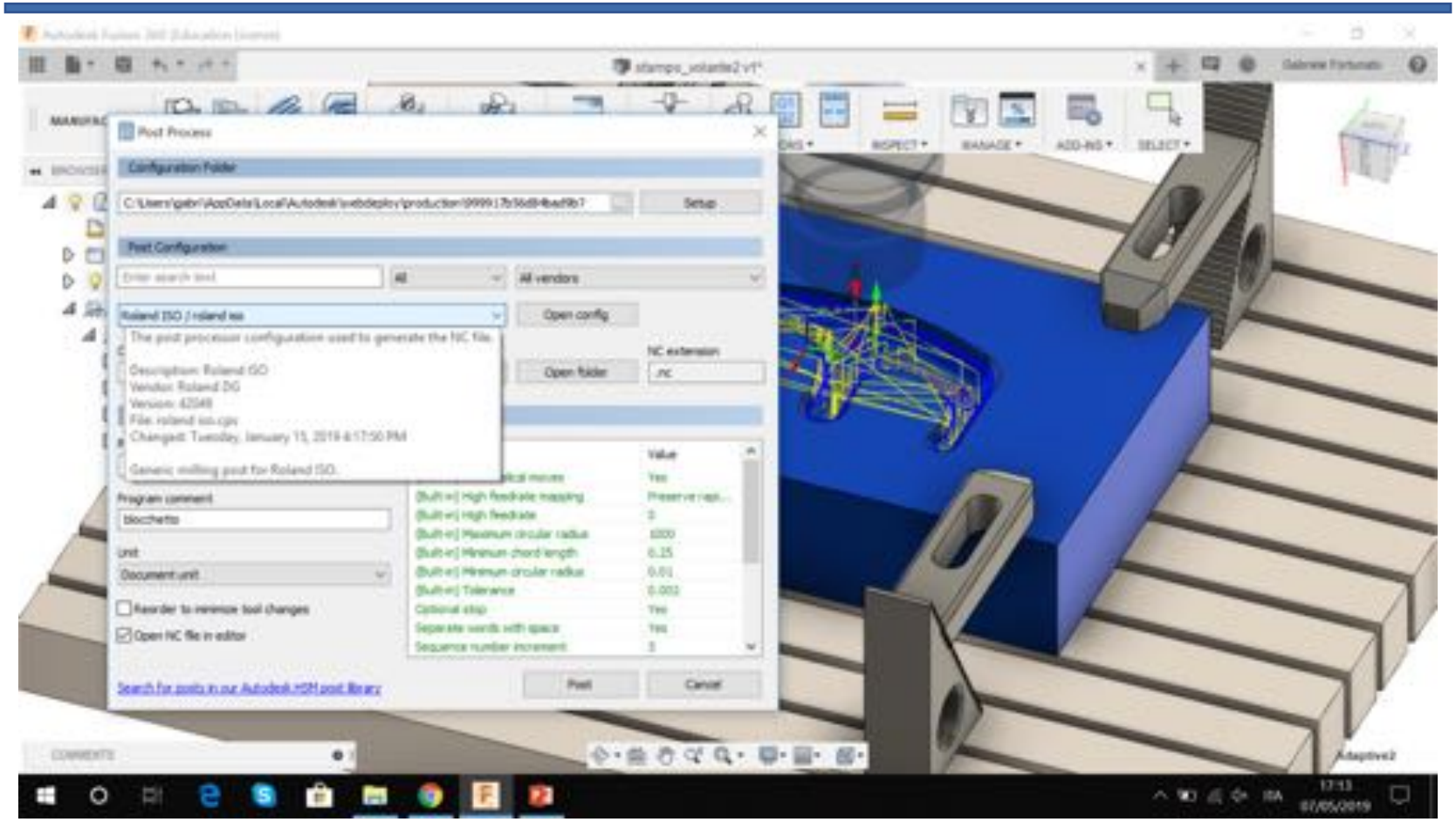
Surface finishing: scallop



Export code

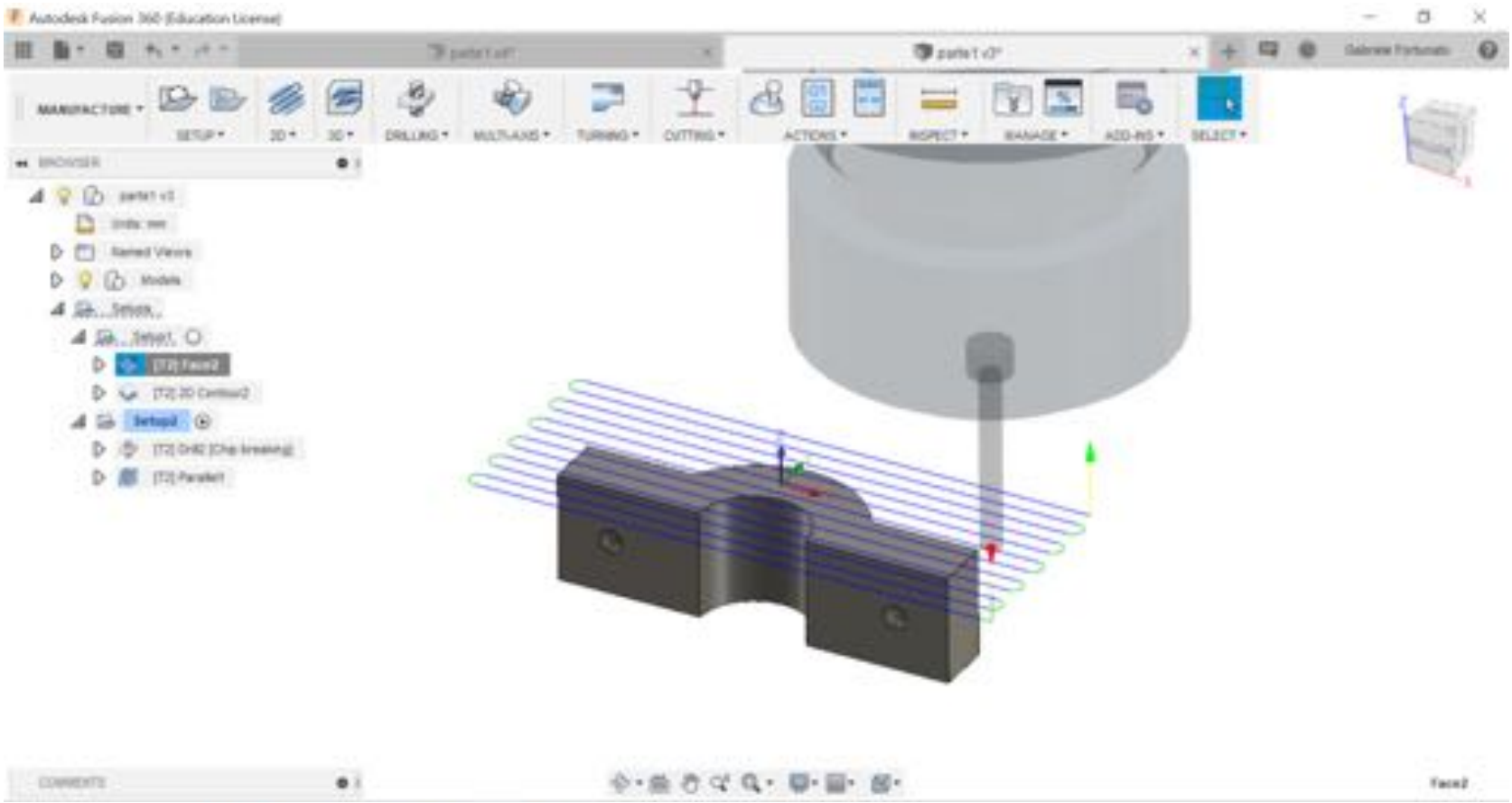

Edit
Edit Tool
Compare and Edit
Generate
Simulate
Post Process
Setup Sheet
Clear Toolpath
Machining Time
Make Default
Suppress
Protect
Optional
Create Derived Operation
Add to New Folder
Add to New Pattern
Duplicate
Cut
Copy
Delete
View Toolpath
Edit Notes
Show Log
Store as Template
Expand All Children
Post Process

Select machine and generate code

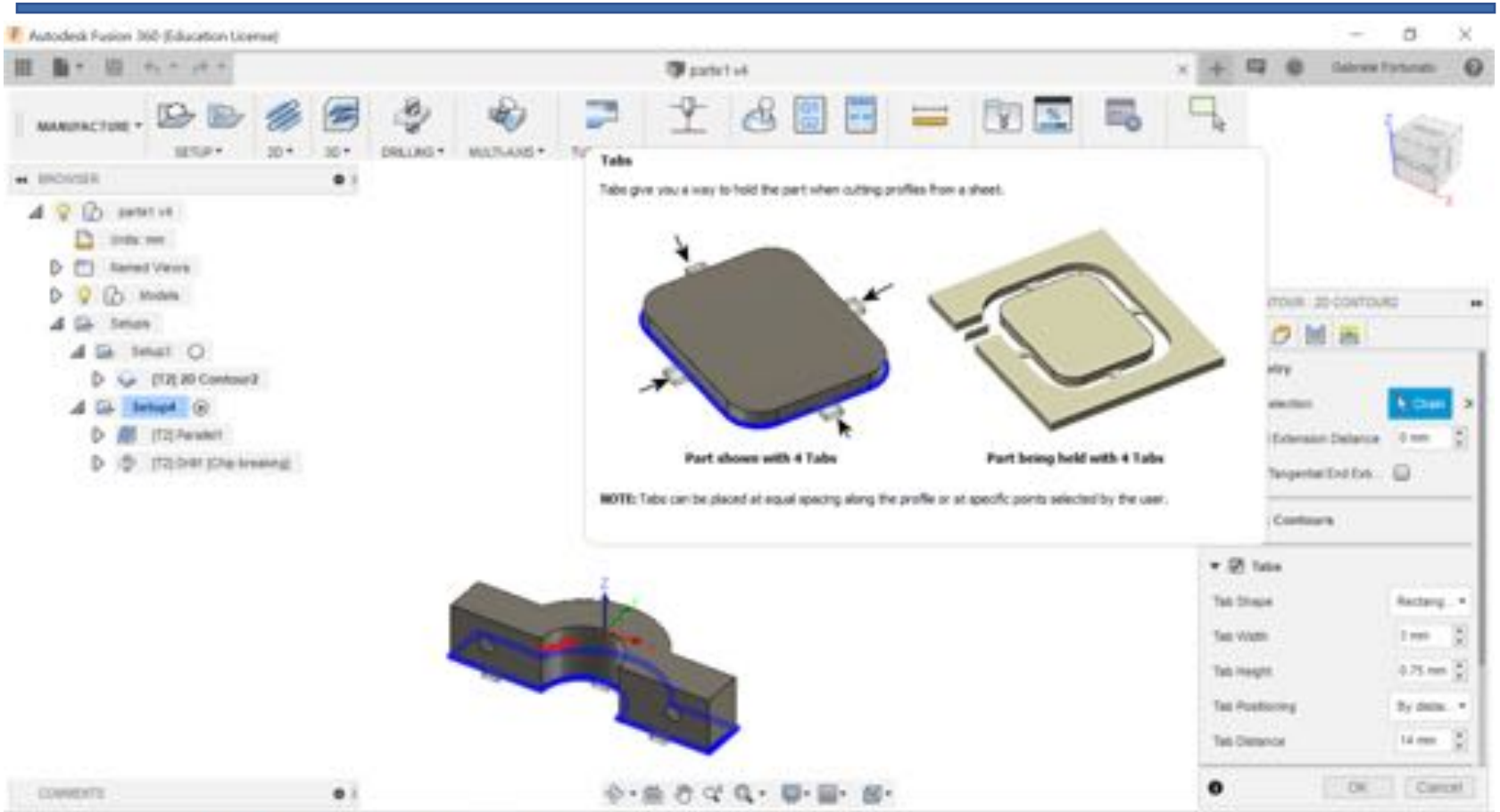


Example 2

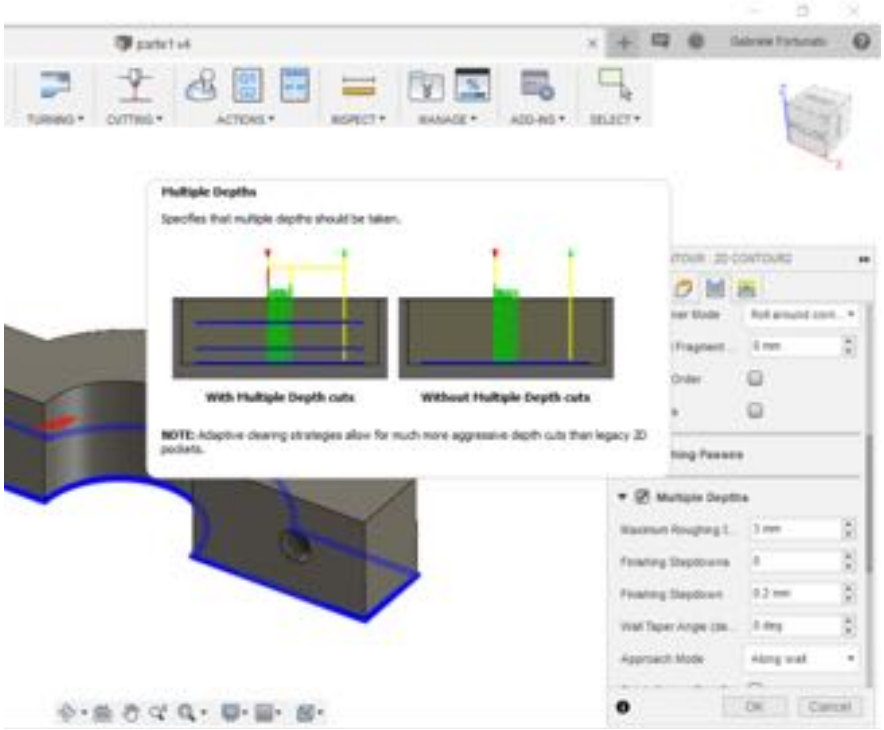
2D → Face (remove stock top offset)

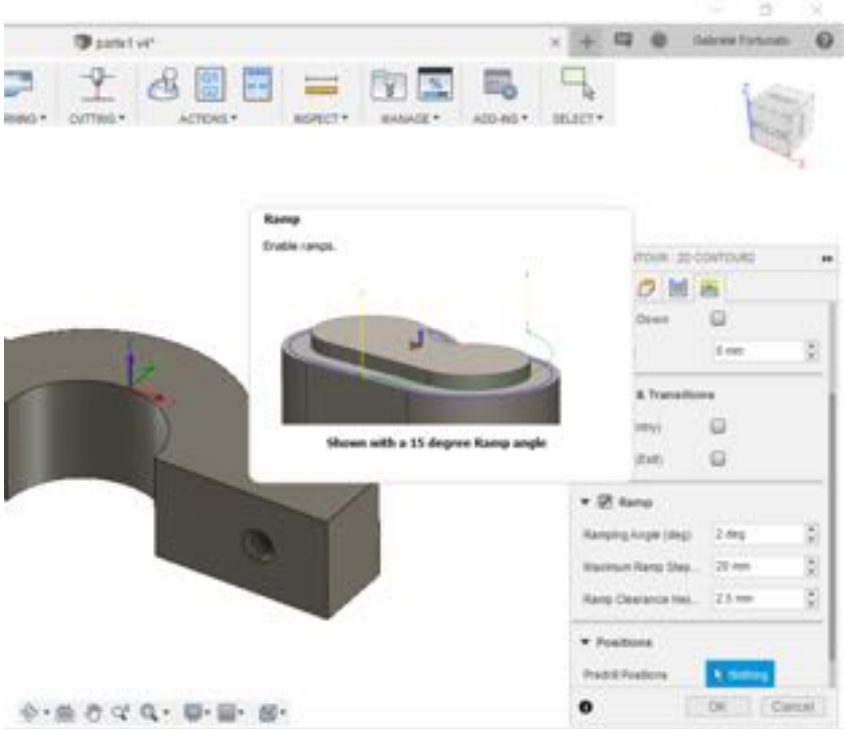


2D contour: tabs

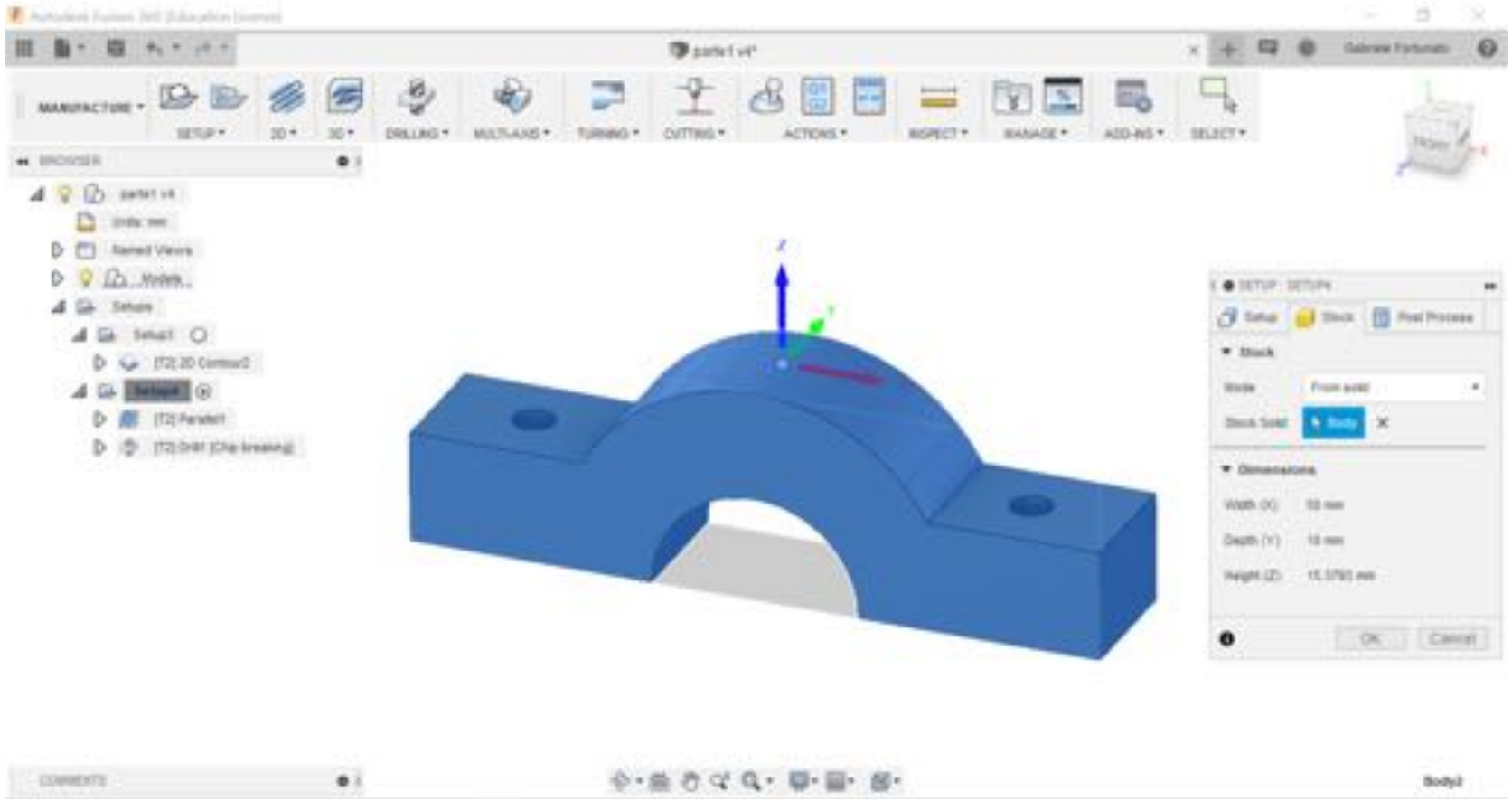


2D contour: multiple dephts and ramp

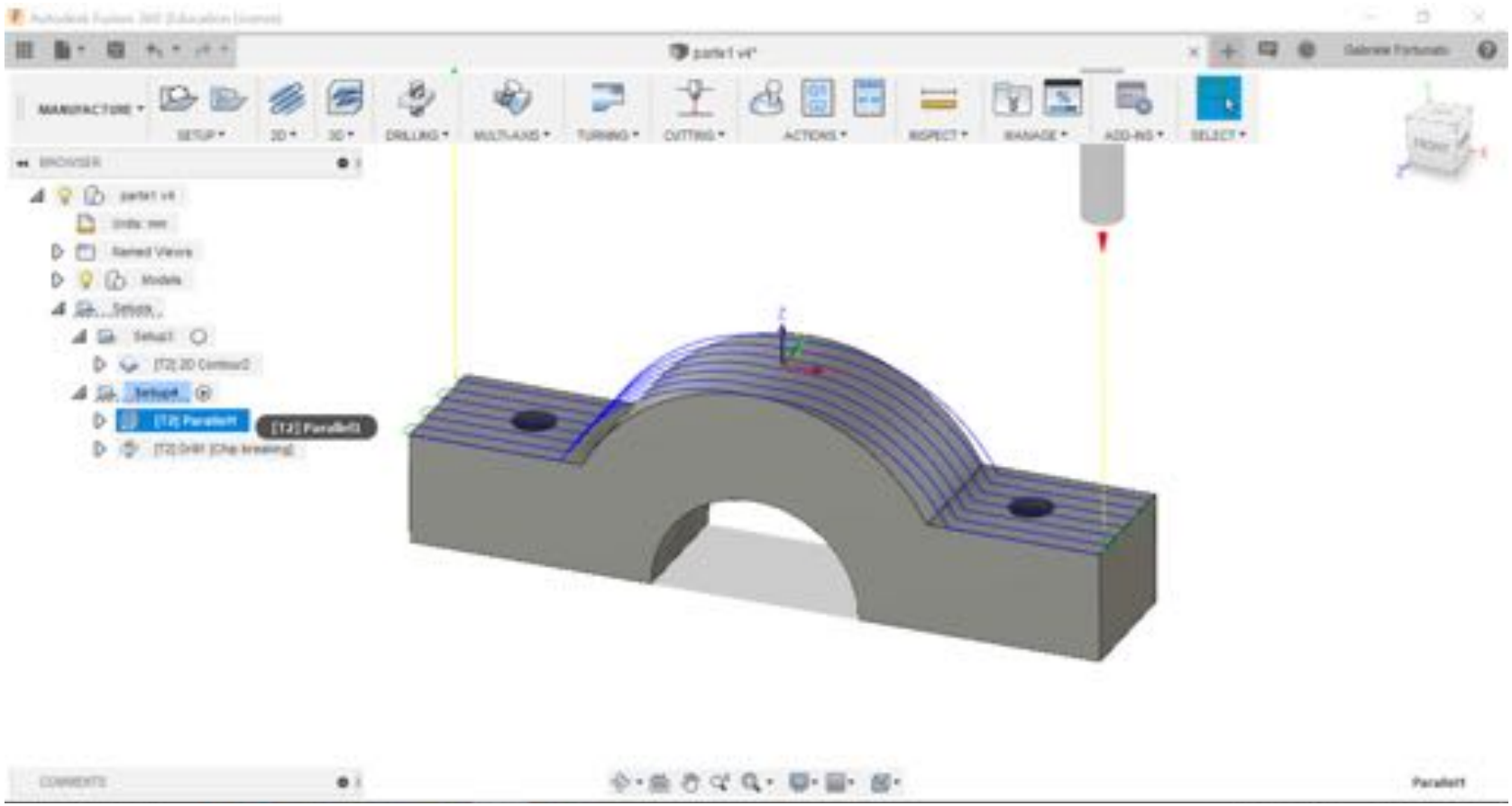




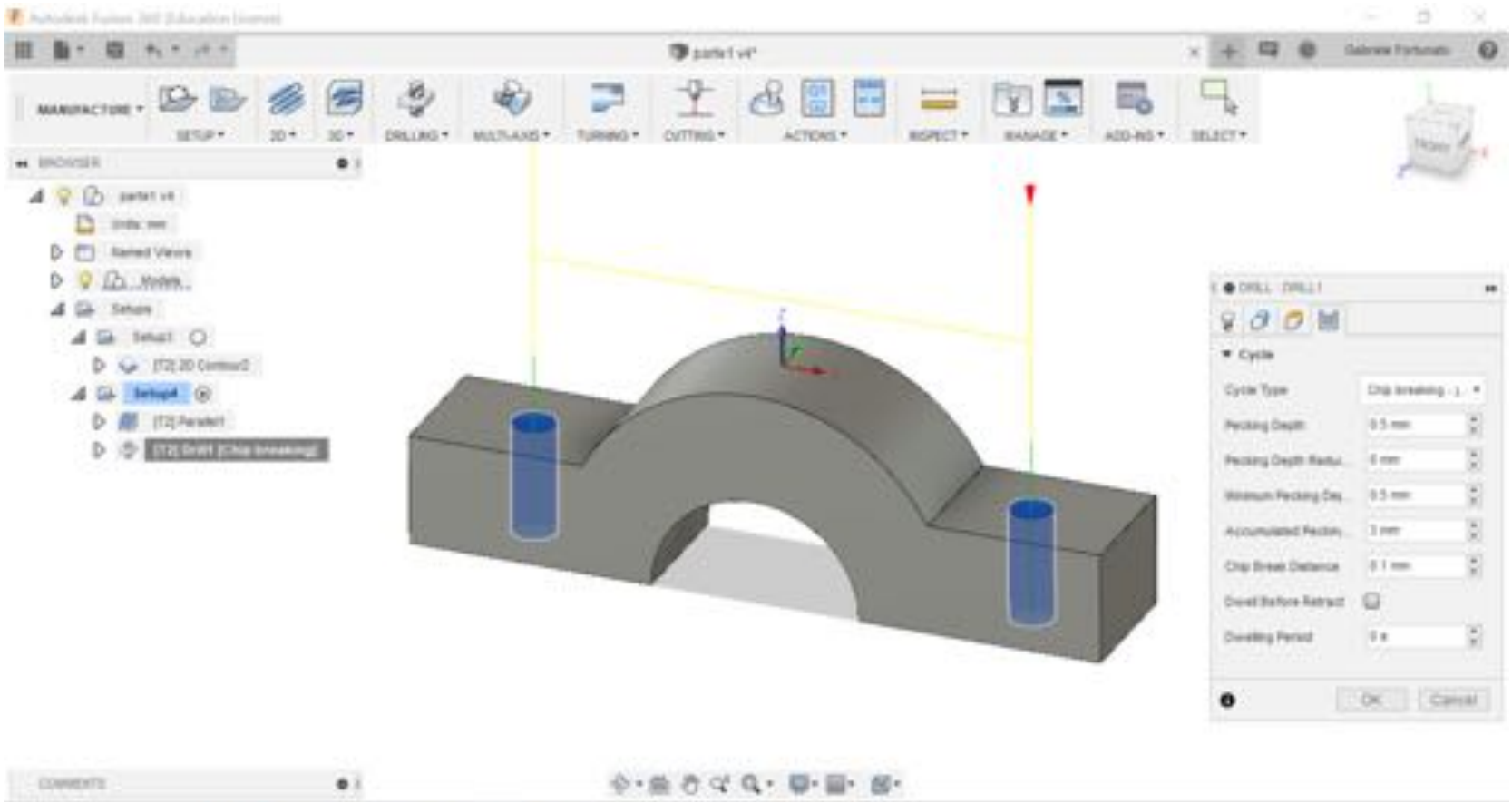
Create new setup and change coordinate system



Paralle finishing



Drill (chip breaking)



Roland SRM-20 Desktop Milling Machine