

Solid Parts

- Stator
 - Sketches
 - Black lines
 - Driven geometry
 - Design Tree
 - Rearrange order
 - Referenced features prevent time-travel
 - Reverse time
 - Reference geometry (axis)
 - Configurations
 - Suppressed Features
 - Dimensions
 - Colours

- Pinion
 - Tooth Geometry
 - Helical
 - Export
 - 3D Printer
 - STL
 - Waterjet
 - DXF

Sheet-Metal Parts

- New Part
 - Base Flange
 - Edge Flange
- Stand
 - Flatten
 - Unfold / Fold
 - Export DXF
 - Sheet metal option

- Sheet-Metal Design
 - Bend indicator
 - Bend perforation

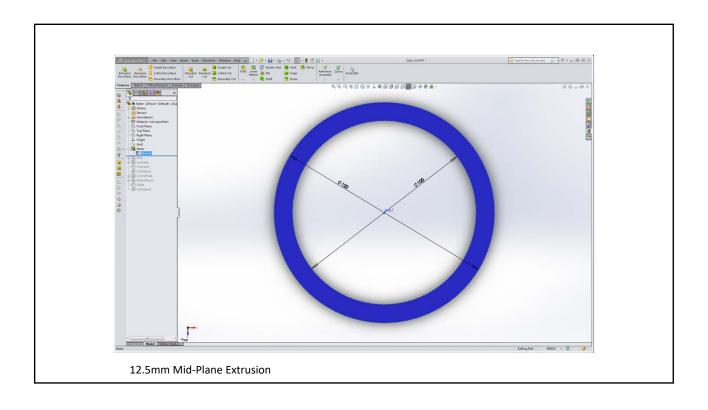
Assemblies

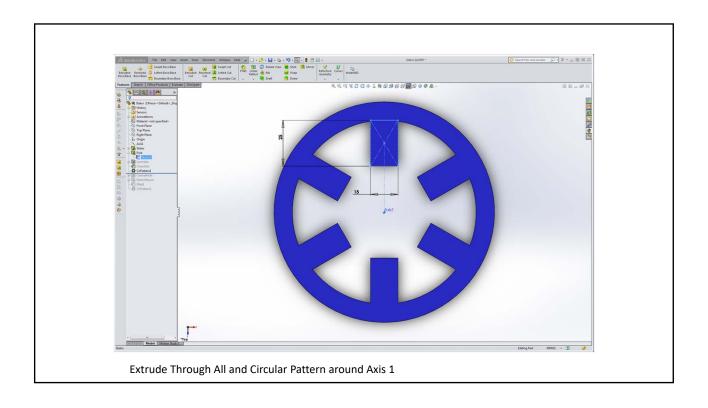
- Stator
 - Fixed / Floating parts
 - Pattern Components
 - Linear
 - Circular
 - Different Part Configurations
 - Configurations
 - Evaluate Design
 - Interference Check
 - Section View
 - Exploded Views
 Animate

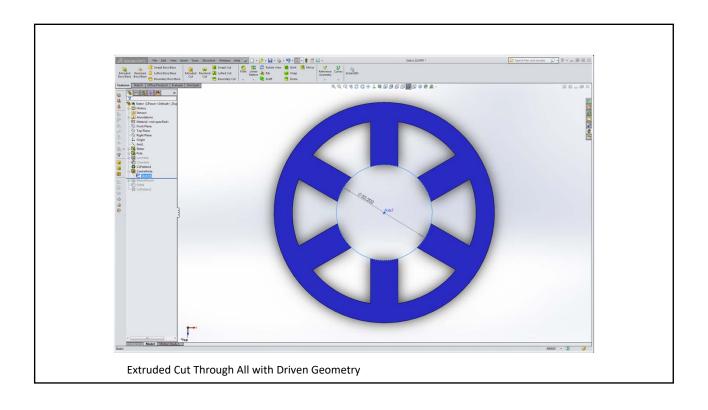
- PlanGear
 - Standard Mates
 - Mechanical Mates
 - Gear
 - Suppressing Mates
 - Alignment
- DriveShaft
 - Sub-Assemblies
 - Rigid / Flexible
- Machine
 - Mechanical Mates
 - Slot
 - Cam

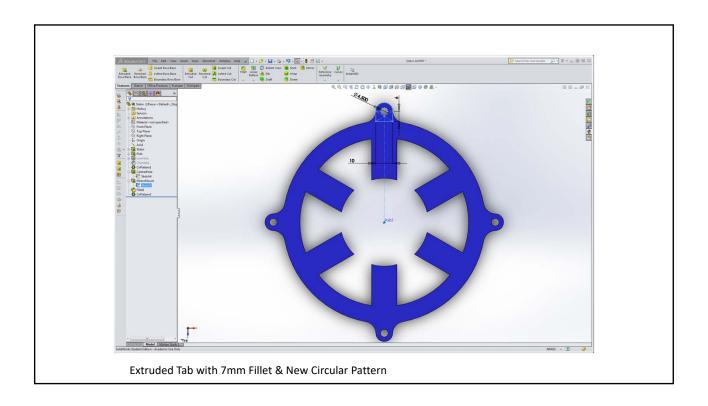
Stator.SLDPRT

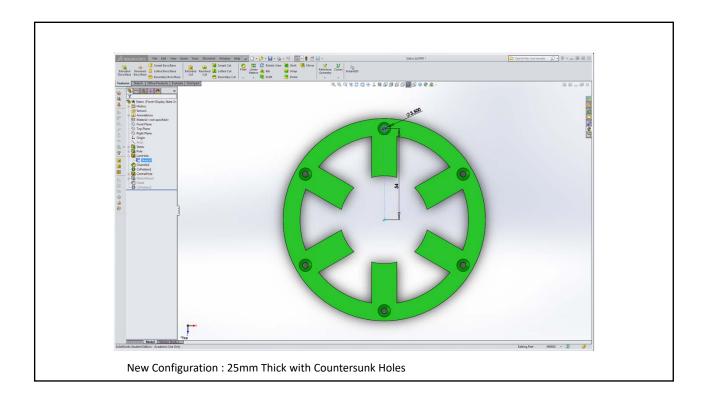
Solid Parts

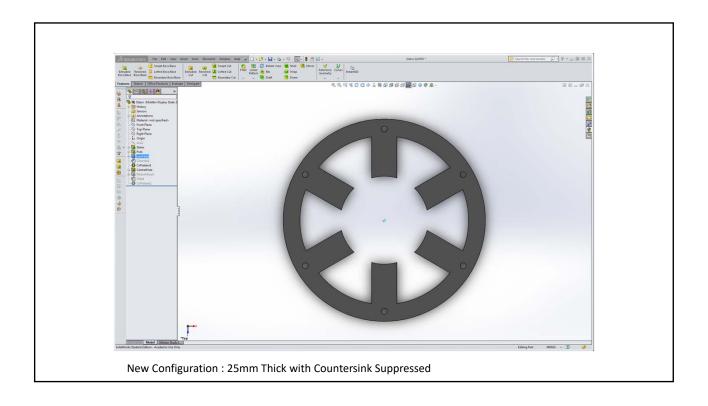


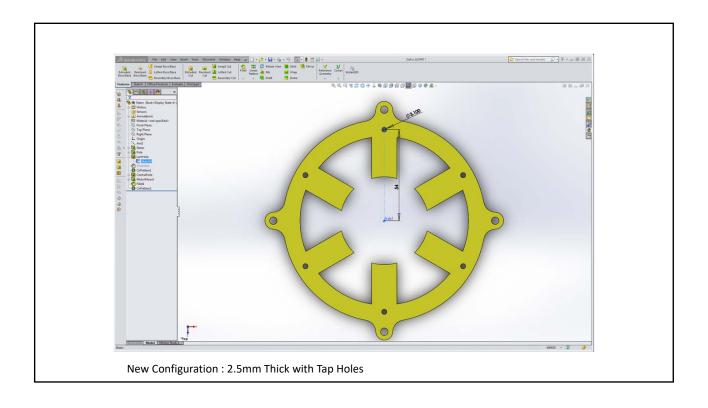




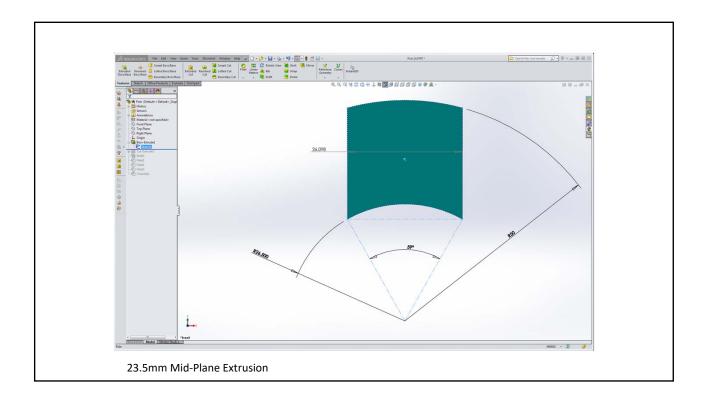


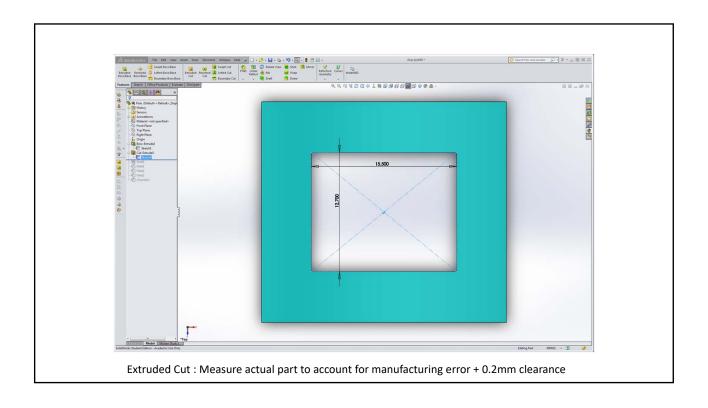


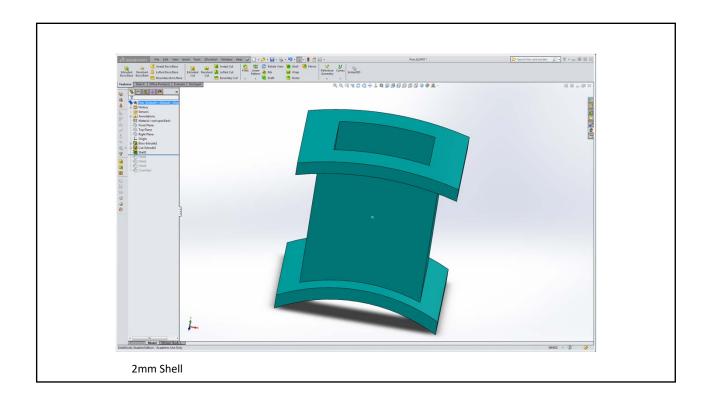


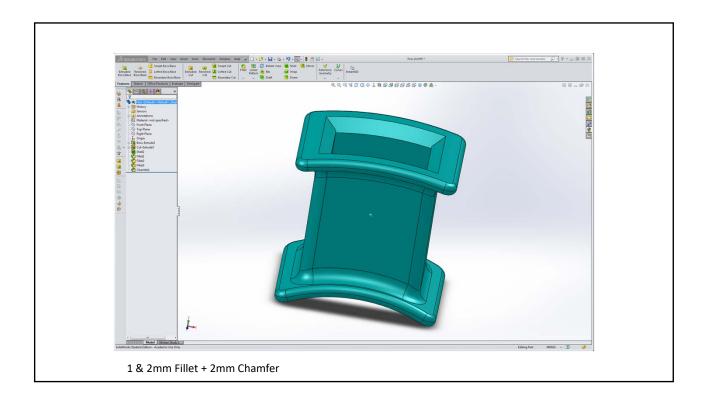


Pole.SLDPRT





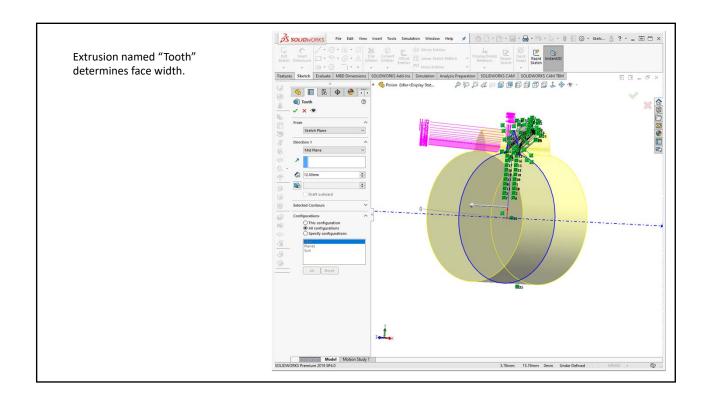






Pinion.SLDPRT

• Available on SW page in Tools Tab

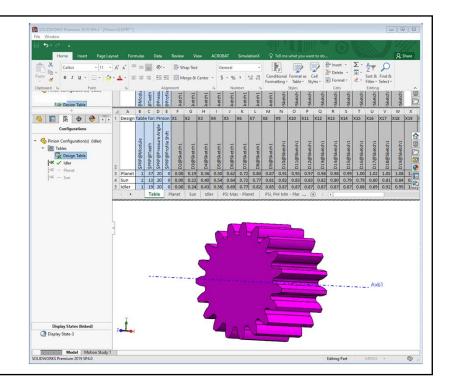


Edit Design Table in Configuration menu to set Module (M) and Number of Teeth (Z).

 $M \approx \frac{1}{2}$ Tooth Height Gear OD $\approx M \times Z$

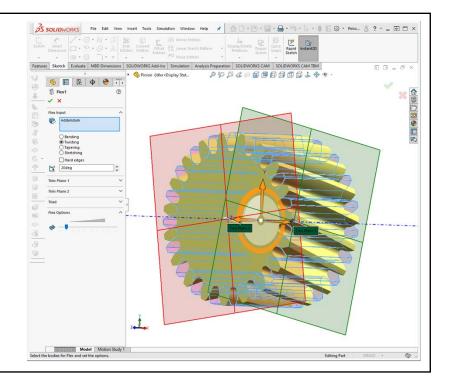
20° is a standard Pressure Angle. Do not change unless you know what you are doing.

0 is a standard Profile Shift. Do not change unless you know what you are doing.



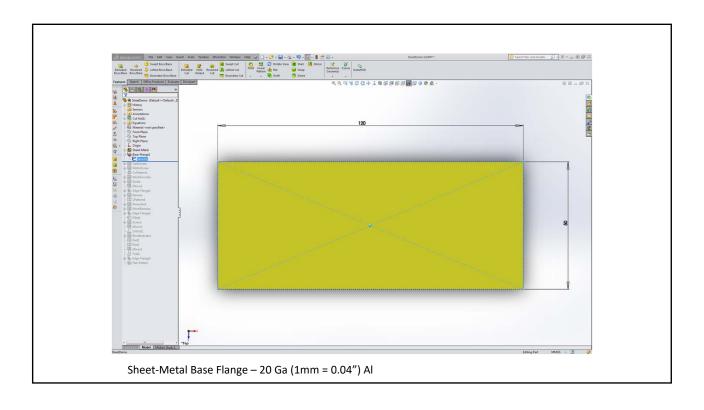
Un-suppress "Helical Flex" feature for helical gear.

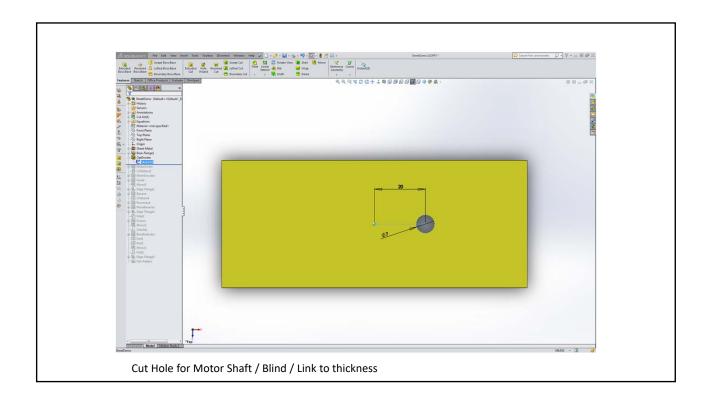
Helix angle must be proportional to Z for two engaged helical gears.

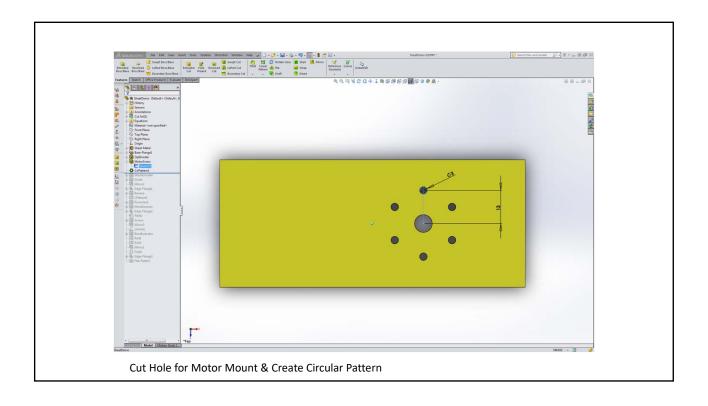


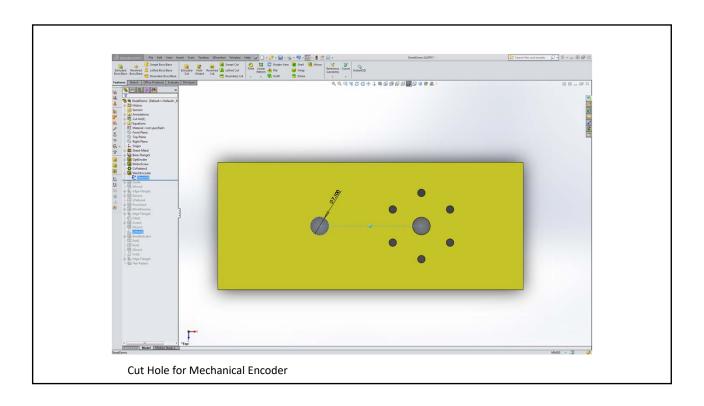
Stand.SLDPRT

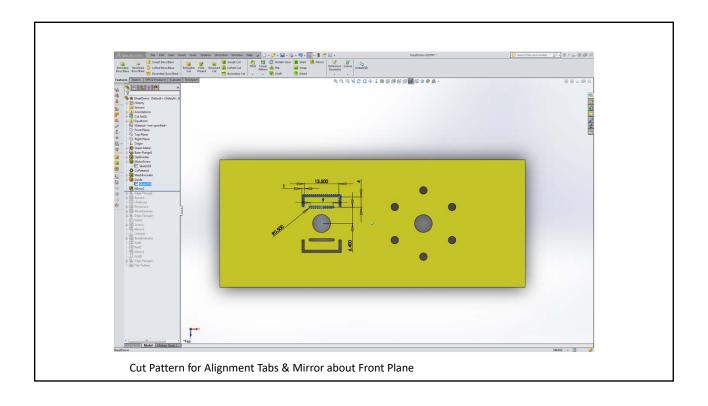
Sheet-Metal Parts

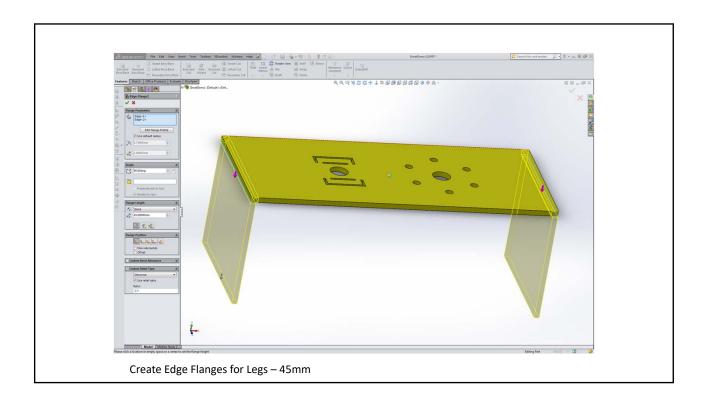


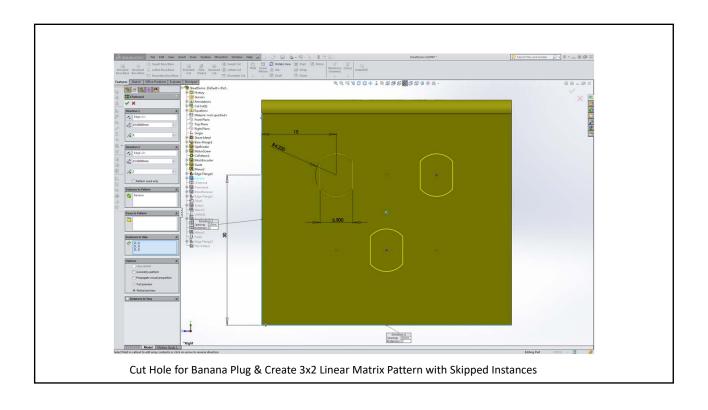


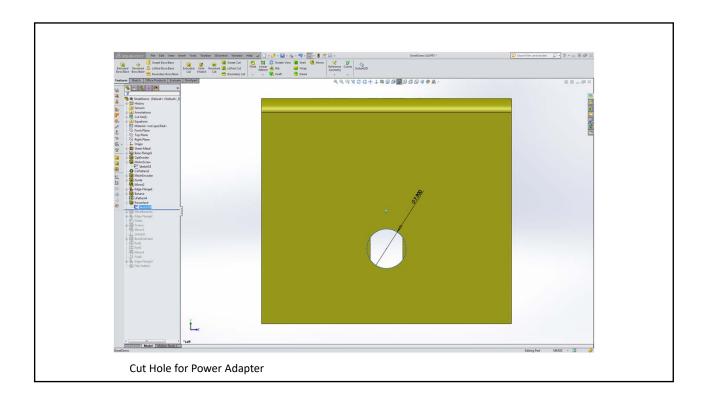


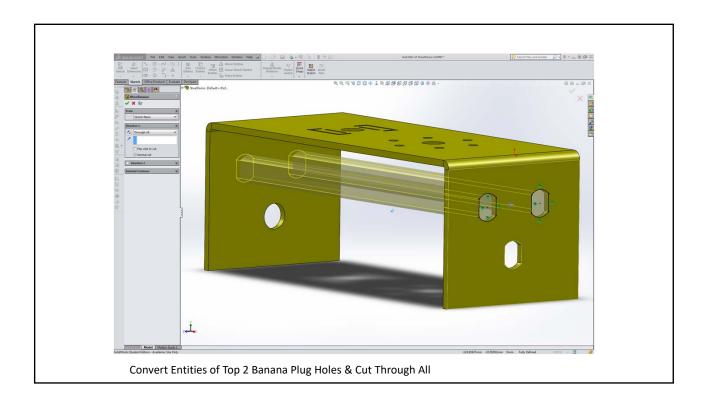


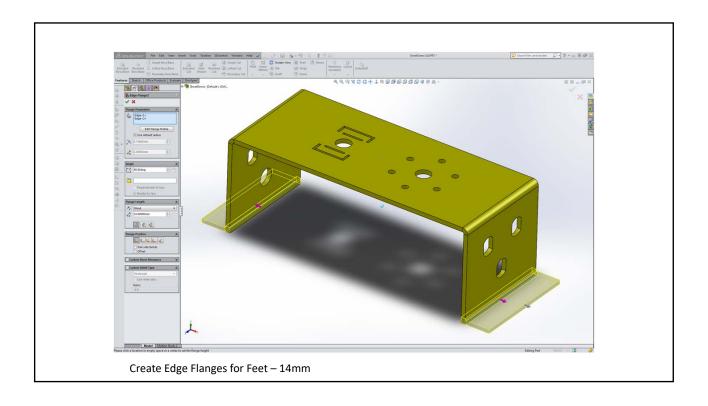


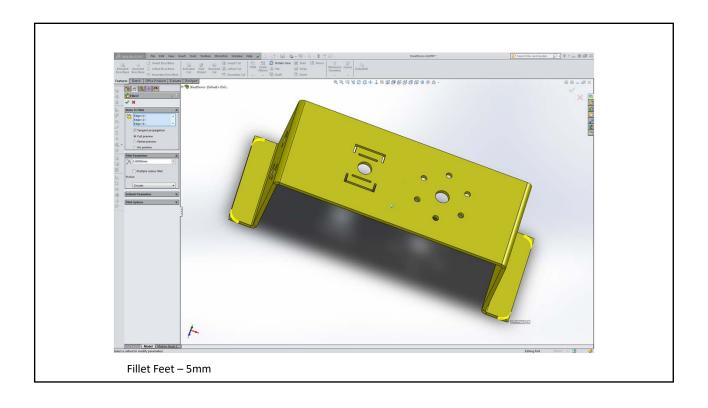


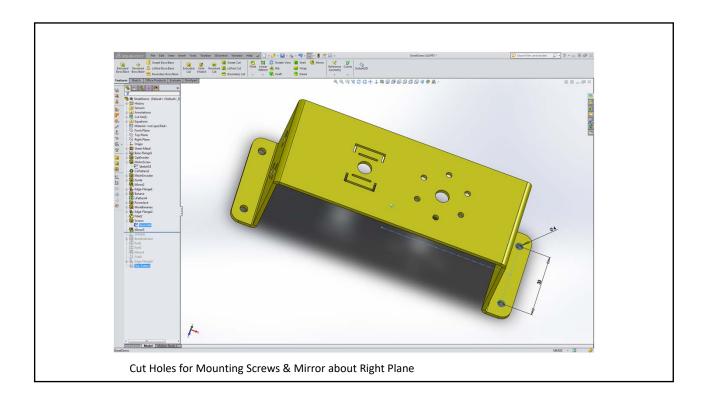


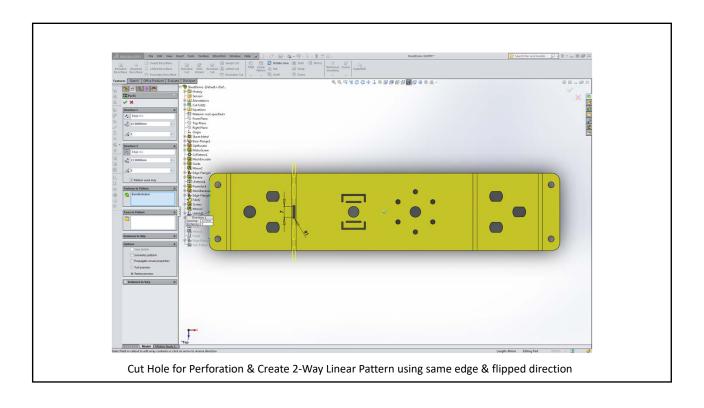


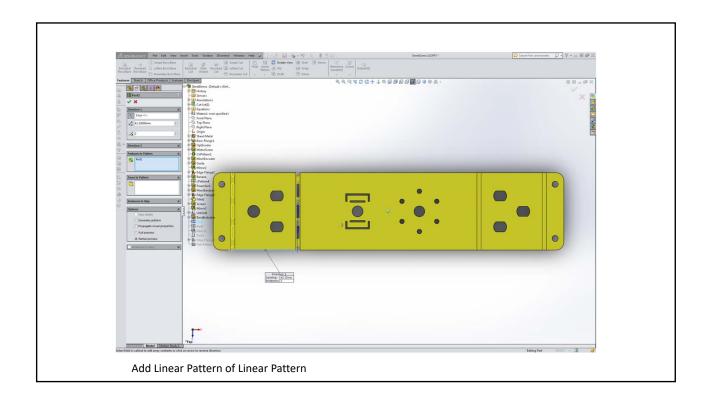


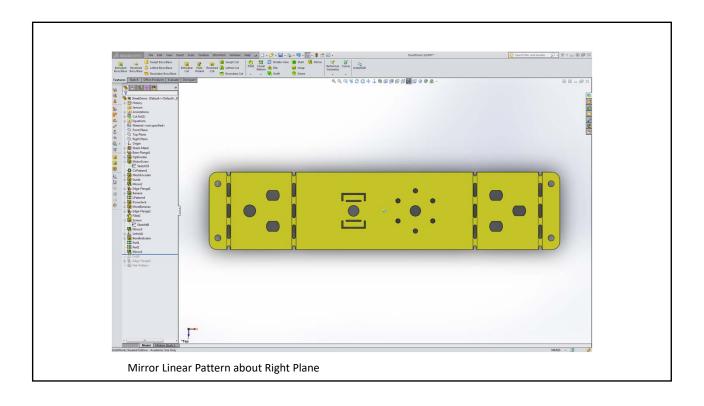


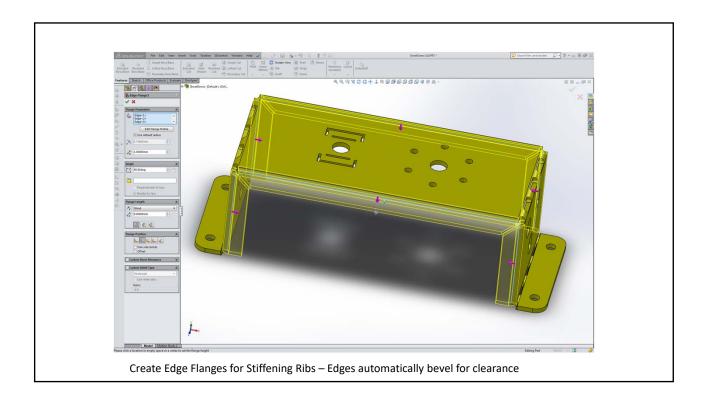


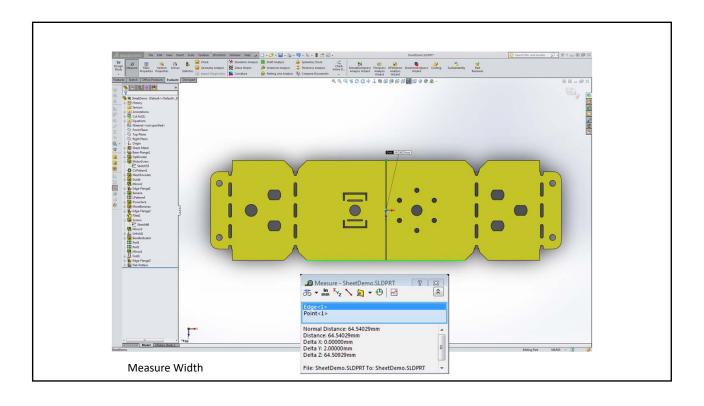


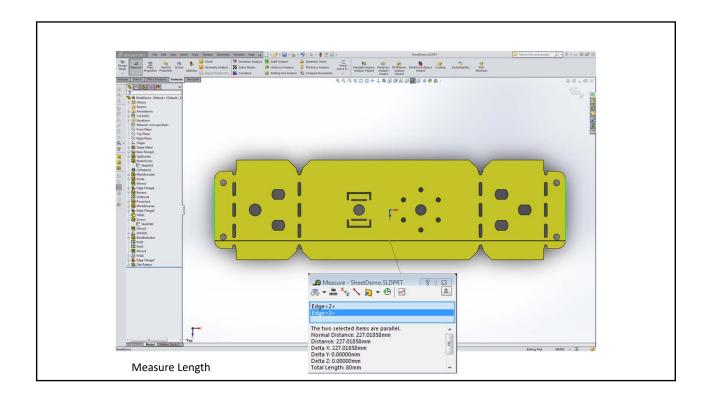


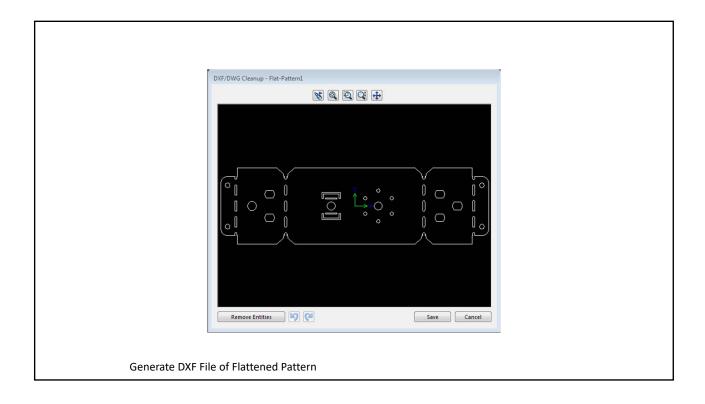


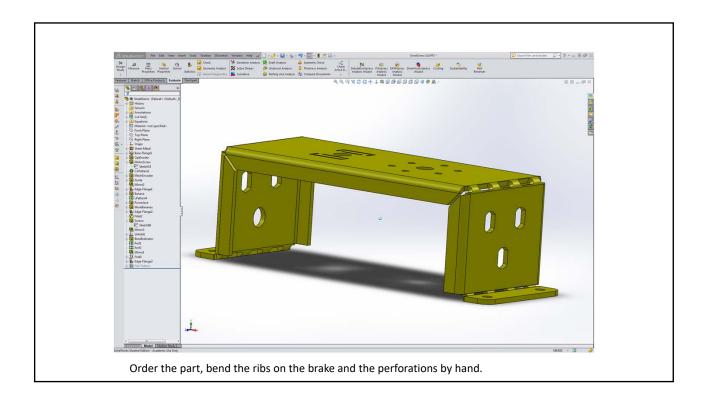


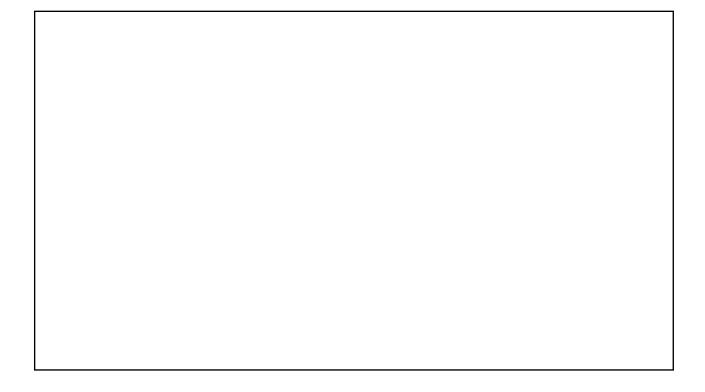






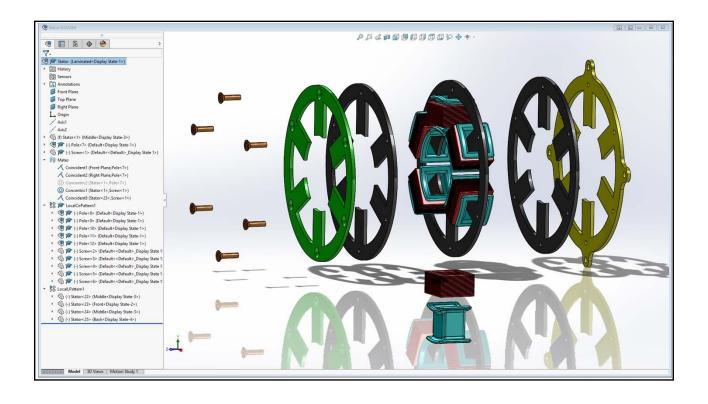




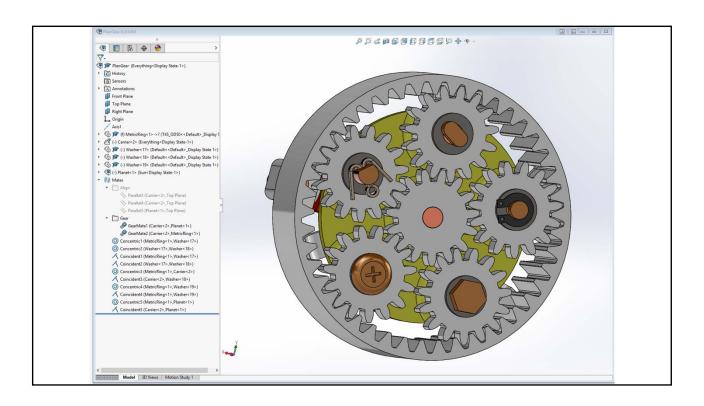


Stator.SLDASM

Assemblies



PlanGear.SLDASM



DriveShaft.SLDASM

