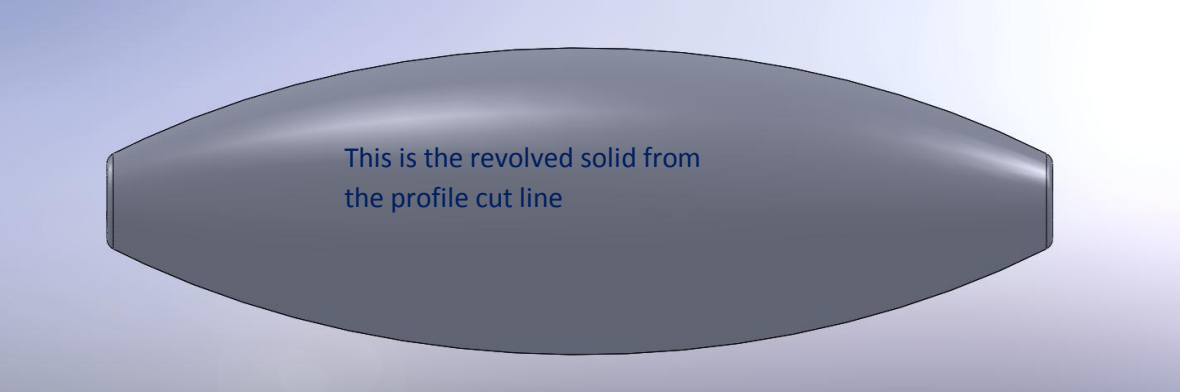
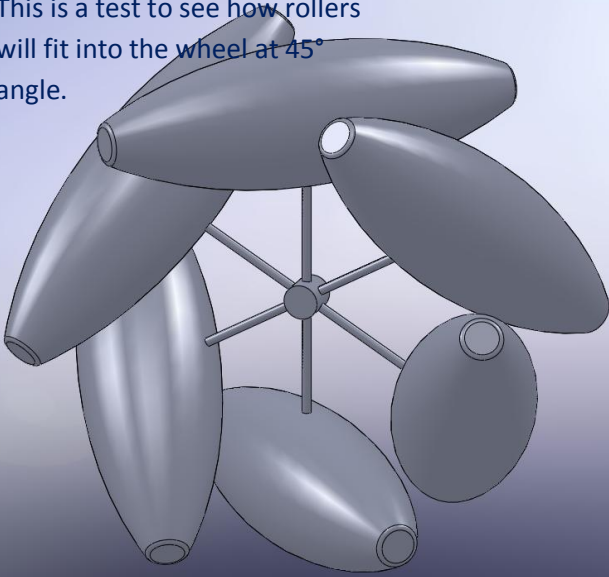


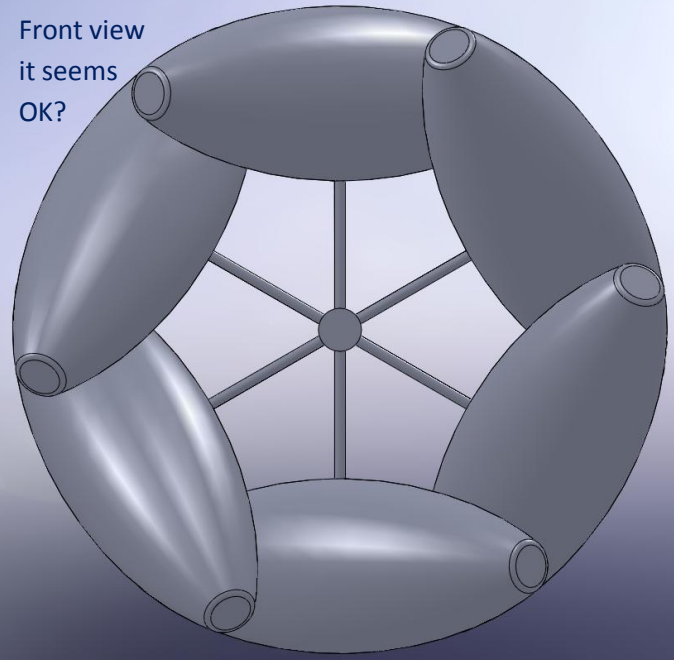
Roller design using sliced profile line



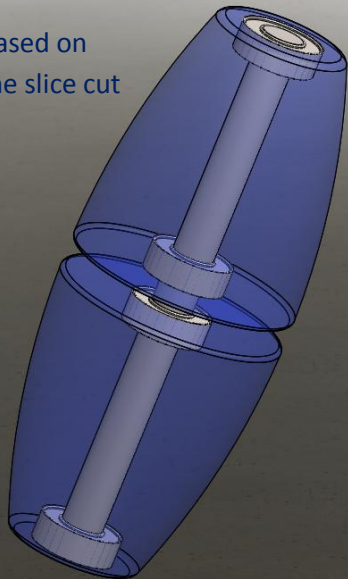
This is a test to see how rollers will fit into the wheel at 45° angle.



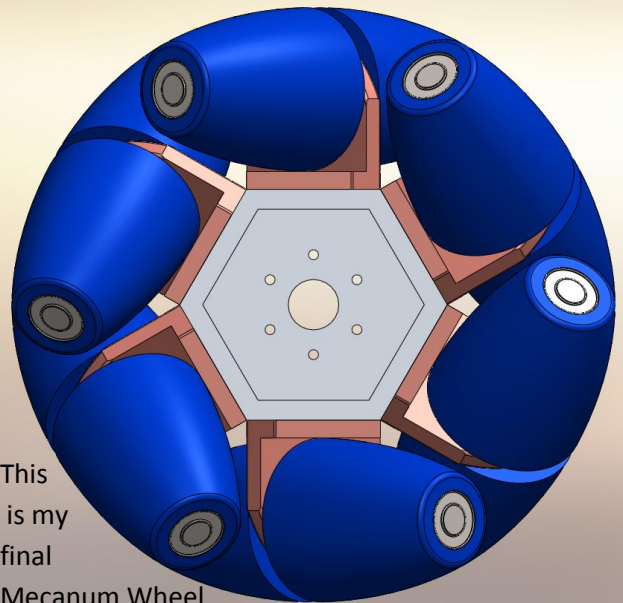
Front view
it seems
OK?



This is the roller based on
the profile from the slice cut

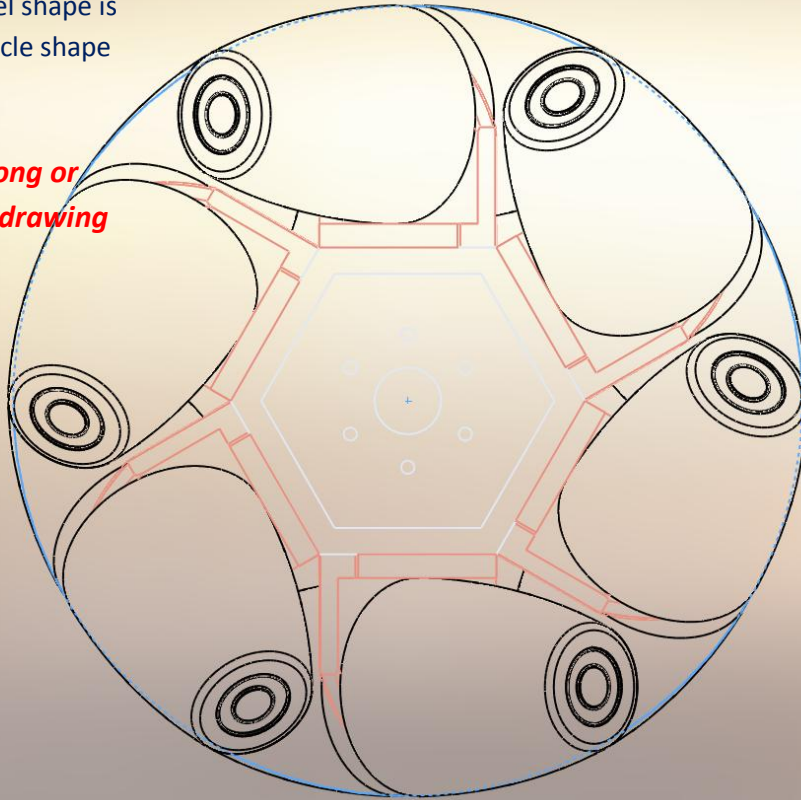


This
is my
final
Mecanum Wheel



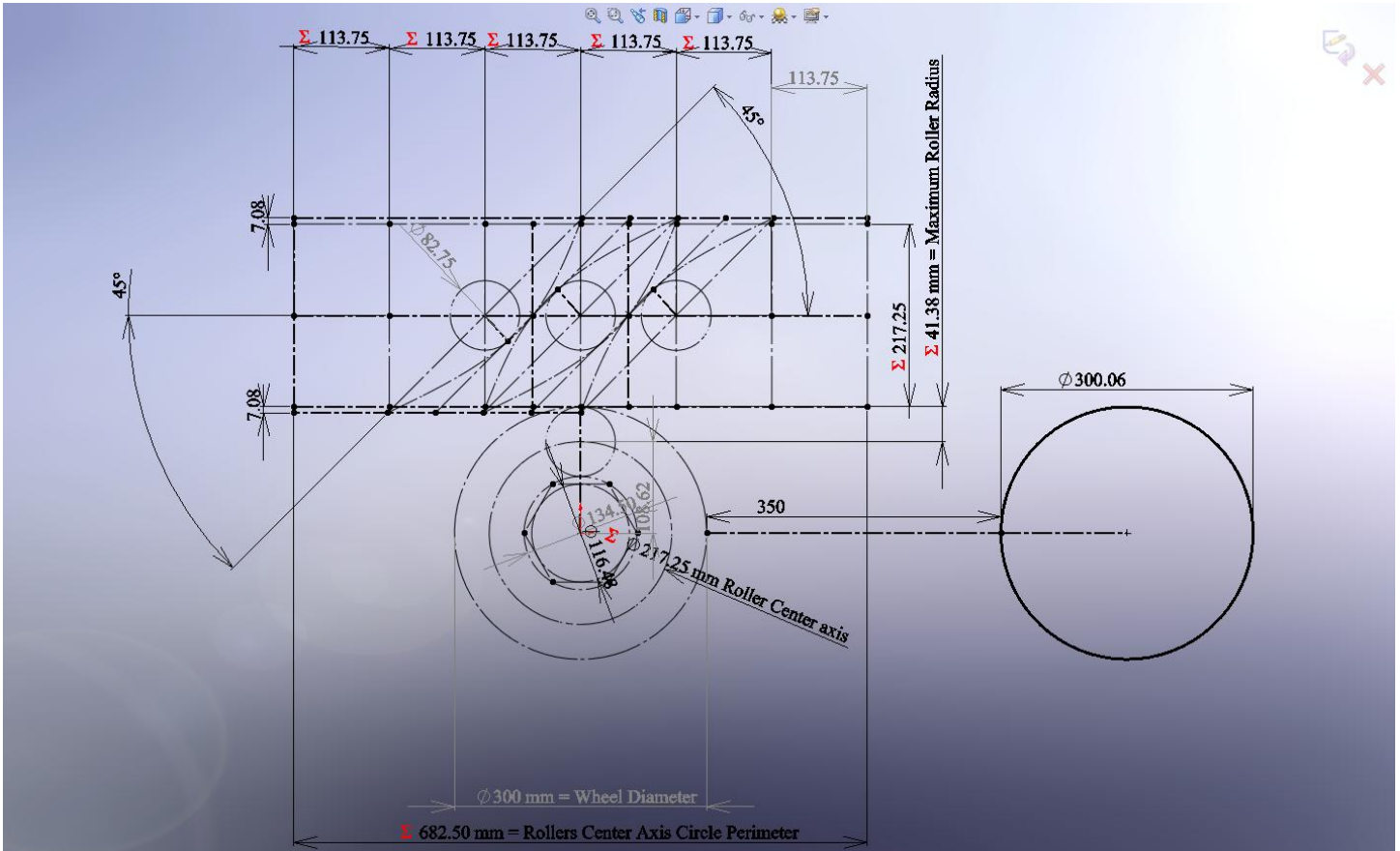
Note how the wheel shape is not equal to the circle shape drawn on top!

“Is this wheel wrong or am I reading the drawing wrong?”



*Frontal

This is a tool I created on Solidworks to determine the Roller Radius. This is not so accurate but it works ok. Length was set to match 2/3 of wheel diameter.



So Either this is my approximation to a Mecanum Wheel profile using Geometry drawings only.

In other words, Designed by Just analyzing shapes and relations between lines and angles.

I wonder how accurate is this design? No math “used” (I keep math to a minimum) I am sure about the geometry used, not the final outcome...