Subject Code: TGD2151

Subject Name: Computer Graphics Fundamental

Student Name: Lim Kuang Tar

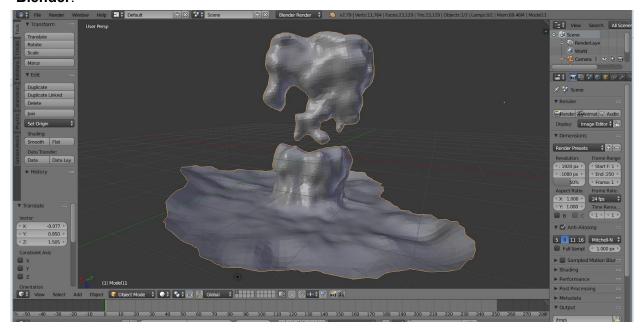
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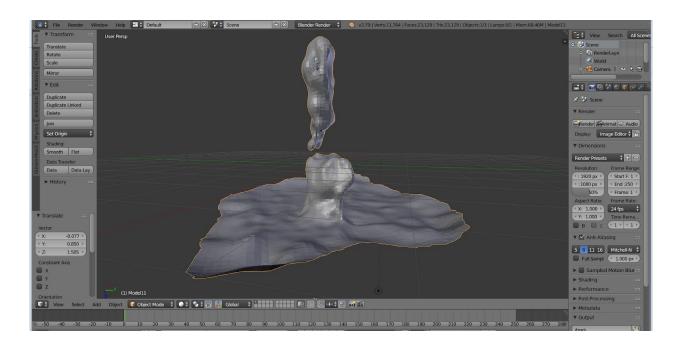
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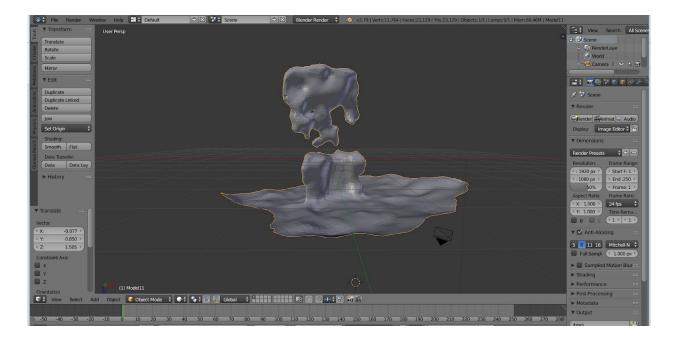
Email address: buddy.tlimk@gmail.com

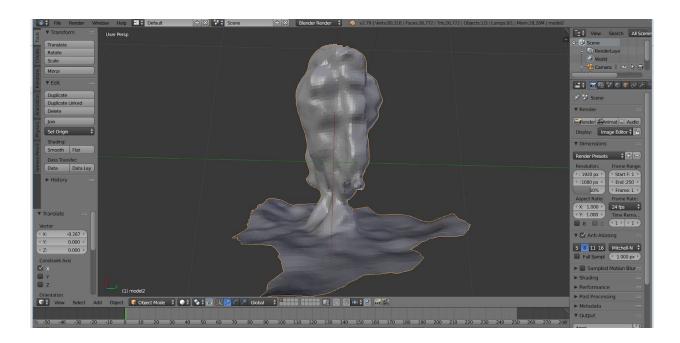
Softwares Used:

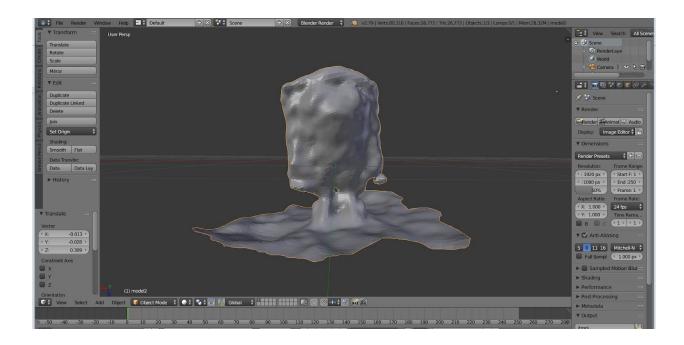
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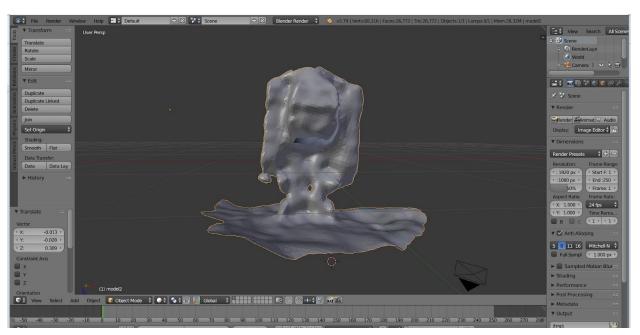


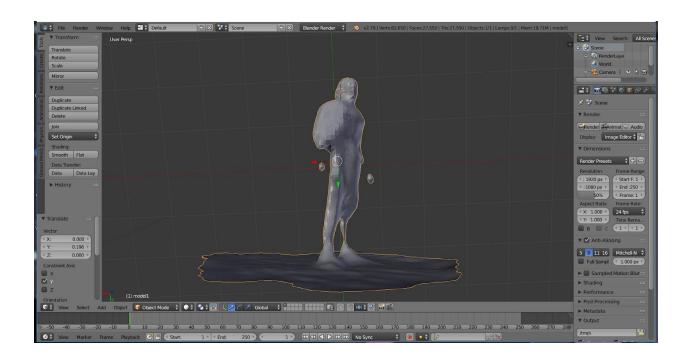


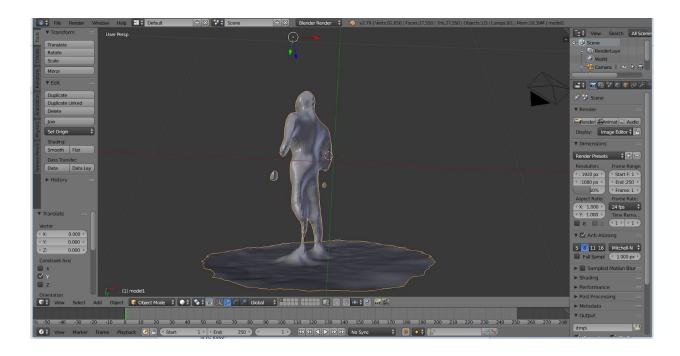


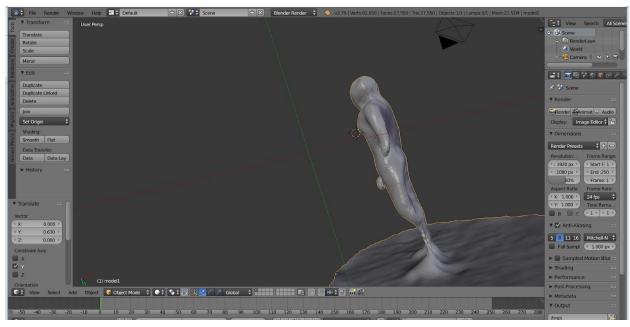




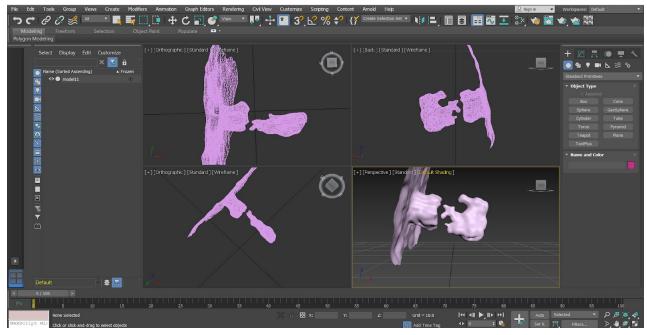




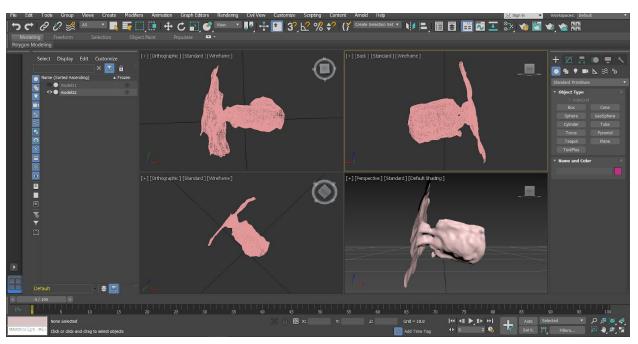


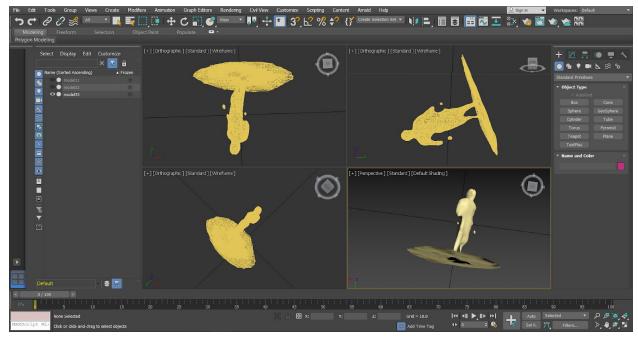


3DS Max:



- Model 1





Model 1

ply
format binary_little_endian 1.0
comment VTK generated PLY File
obj_info vtkPolyData points and polygons: vtk4.0
element vertex 69387
property float x
property float y
property float z
property float nx
property float nx
property float nz
element face 23129
property list uchar int vertex_indices
end_header

Model 2

```
ply
format binary_little_endian 1.0
comment VTK generated PLY File
obj_info vtkPolyData points and polygons: vtk4.0
element vertex 80316
property float x
property float y
property float z
property float nx
property float nx
property float nz
element face 26772
property list uchar int vertex_indices
end_header
```

Model 3

```
ply
format binary_little_endian 1.0
comment VTK generated PLY File
obj_info vtkPolyData points and polygons: vtk4.0
element vertex 82650
property float x
property float y
property float z
property float nx
property float nx
property float nz
element face 27550
property list uchar int vertex_indices
end_header
```

The method I used to create toy models into computer models is by using SCANN3D from Google Play Store and then using my phone's camera to take pictures of the toys (approx. 30 pictures each) and exported the model file into each respective softwares.

The problem I have encountered during the process of making the model is that the models are not very accurate. Certain limbs would disappear or models will look out of shape as opposed to the physical model. It is to be believed that this is due to the algorithm that SCANN3D uses to interpolate the model may not be accurate, however it is to be noted also that I was using the free trial version of SCANN3D as the software operated on a subscription basis and as such, may have affected the end result of the model as the high quality model required subscription. Another factor would be the lighting conditions where I took pictures of the model, presumably due to the fact that there were many sources on light that were shining on the model and also light being reflected from the window which my phone's camera had trouble focusing and adjusting its exposure values to compensate. Another problem that I encountered is that the data exported from SCANN3D's file couldn't be extrapolated in the way the report required and therefore the report only had half the data.