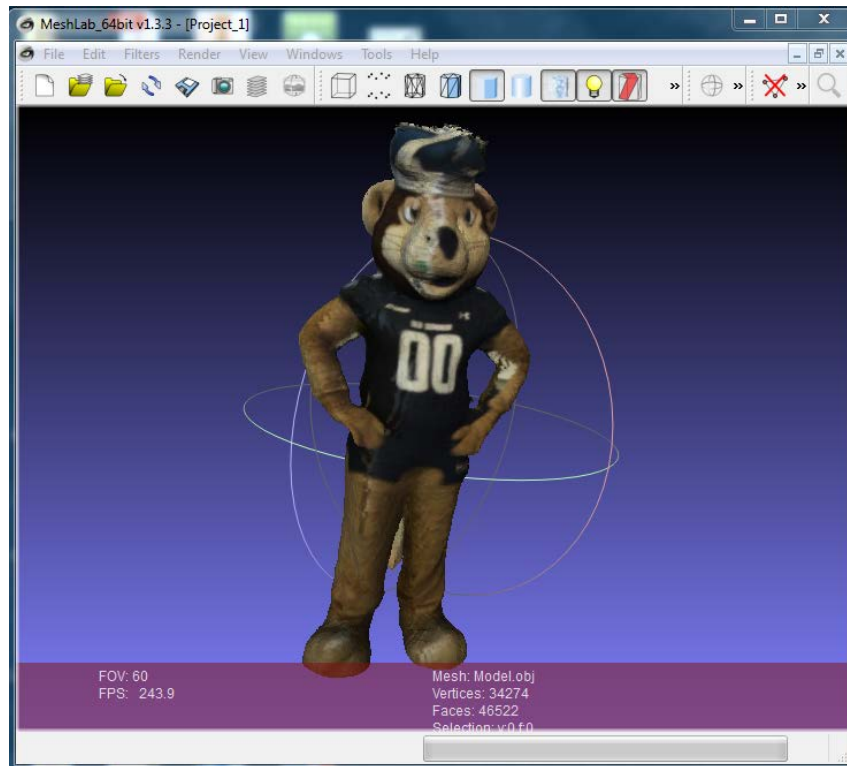


Download attached Big Blue scans, unzip them and process them by the following steps:

**a) Mesh Lab processing**

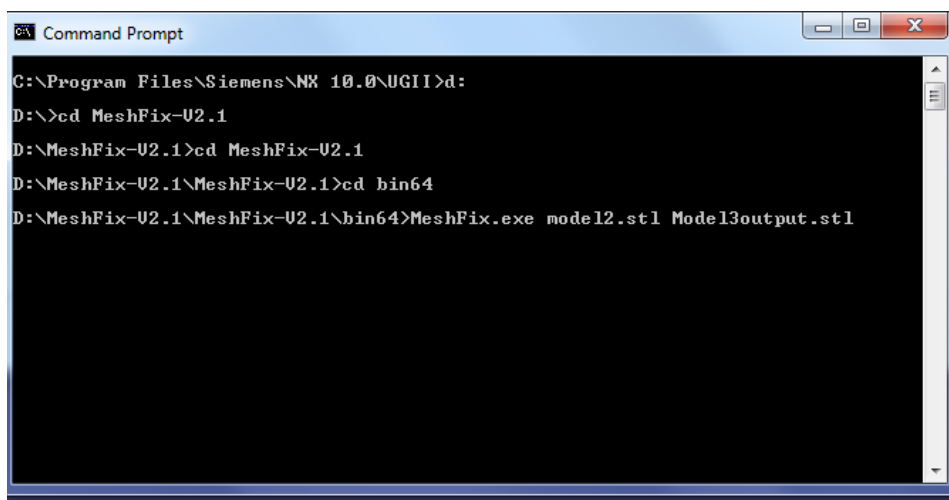
1. Open MeshLab from Start > Programs > MeshLab



1. Edit > Select Faces in Rectangular Region > Select with the rectangular selection what to delete
2. Filters > Selection > Delete Selected Faces
3. File > Export Selected Faces as STL (use some simple name e.g. model01) to the following directory: D:\MeshFix-V2.1\MeshFix-V2.1\bin64

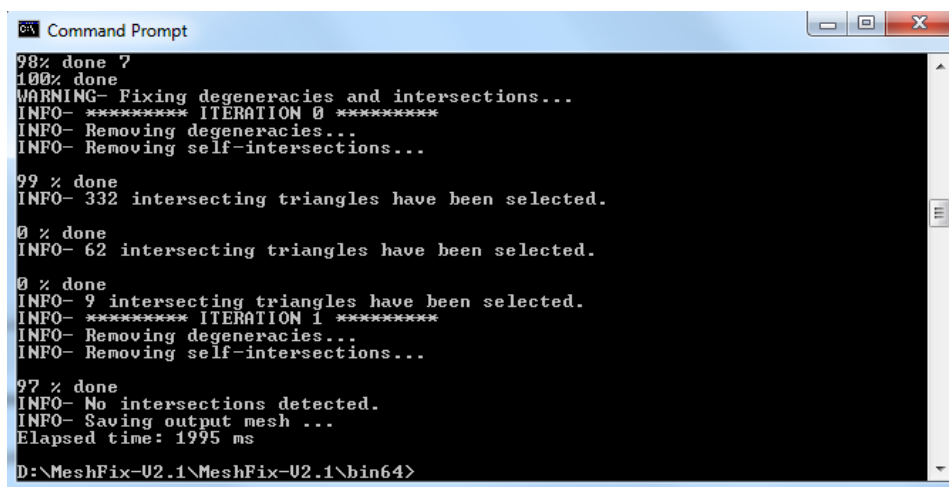
**b) MeshFix**

1. Open Command Prompt (search “command”, click command icon).
2. A few commands:
  - a. c: (d:) – go to root directory in c drive (d drive)
  - b. cd – change directory; cd .. – change to parent directory
  - c. use “tab” key to complete filename.
  - d. dir – display files in directory
  - e. Basic DOS commands – [click here](#)



```
Command Prompt
C:\Program Files\Siemens\NX 10.0\UGII>d:
D:\>cd MeshFix-U2.1
D:\MeshFix-U2.1>cd MeshFix-U2.1
D:\MeshFix-U2.1\MeshFix-U2.1>cd bin64
D:\MeshFix-U2.1\MeshFix-U2.1\bin64>MeshFix.exe model2.stl Model3output.stl
```

2. Go to the D:\MeshFix-V2.1\MeshFix-V2.1\bin64
3. Type: “MeshFix.exe model\_name.stl new\_model\_name.stl



```
Command Prompt
98% done ?
100% done
WARNING- Fixing degeneracies and intersections...
INFO- ***** ITERATION 0 *****
INFO- Removing degeneracies...
INFO- Removing self-intersections...

99 % done
INFO- 332 intersecting triangles have been selected.

0 % done
INFO- 62 intersecting triangles have been selected.

0 % done
INFO- 9 intersecting triangles have been selected.
INFO- ***** ITERATION 1 *****
INFO- Removing degeneracies...
INFO- Removing self-intersections...

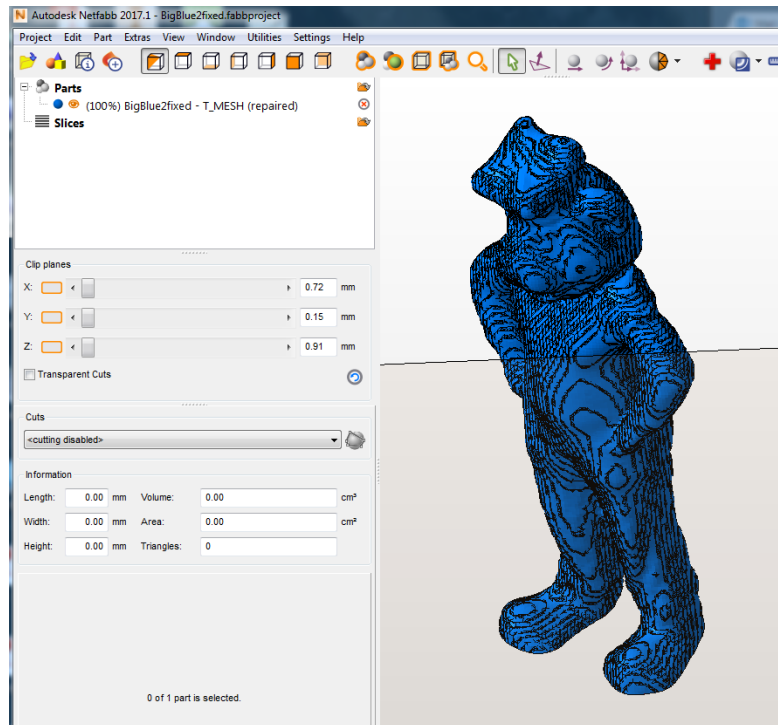
97 % done
INFO- No intersections detected.
INFO- Saving output mesh ...
Elapsed time: 1995 ms
D:\MeshFix-U2.1\MeshFix-U2.1\bin64>
```

model\_name = your model name

new\_model\_name = assign new model

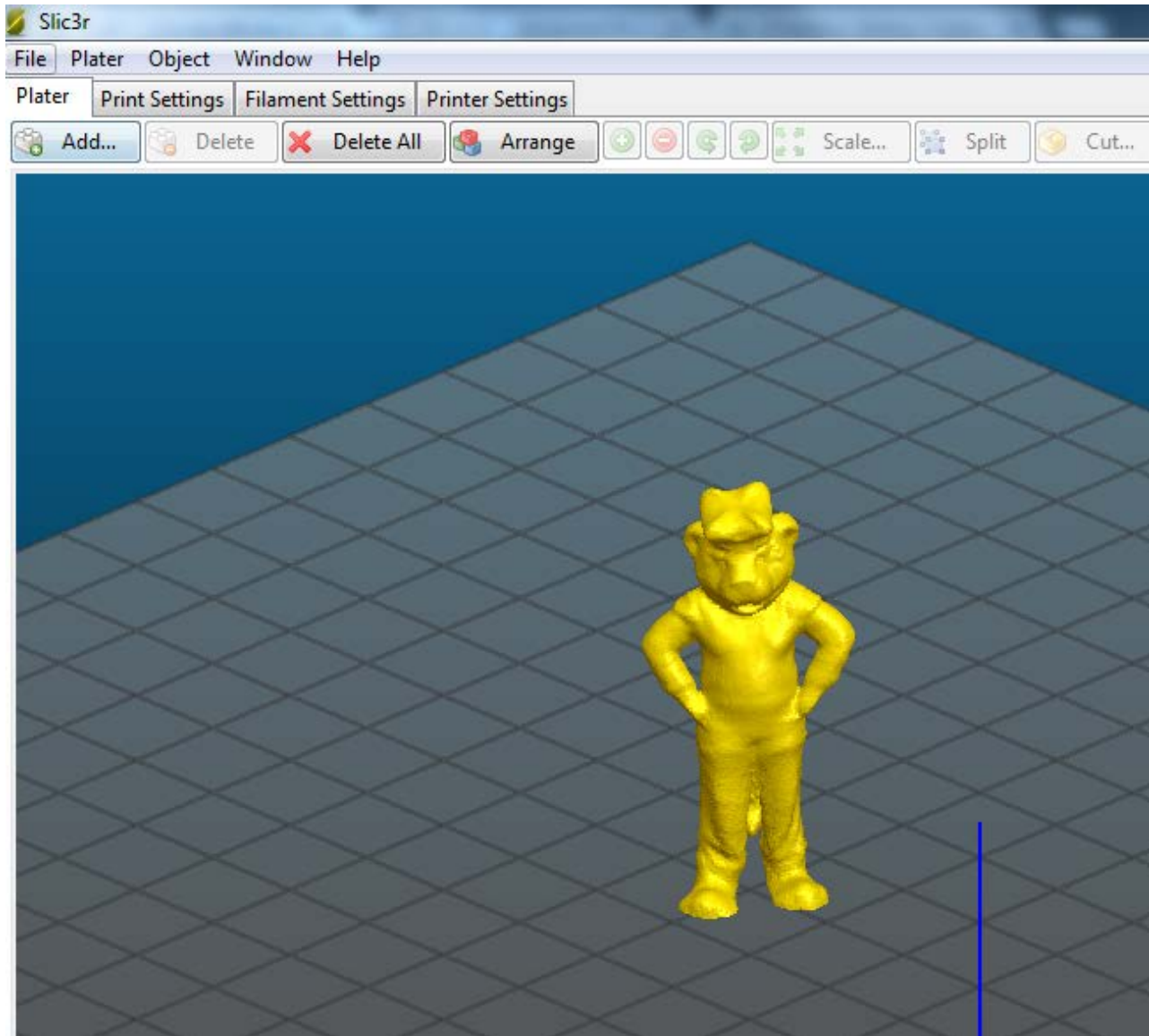
**c) Autodesk Netfabb**

1. Open the file in Netfabb
2. Go to Extras > Repair Part



3. Part > Export Part > As STL

**d) Import STL to Slic3R and Generate G code**



Create the Word file with pictures of your steps. Add your name, course, semester and reflection related to the steps completed. Upload STL and G code files generated during this activity to the Google Drive and as a response to this Homework.