

First – go into Server/bin/debug/net6.0 and find the exe file.

Run the server as administrator.

A message will pop up. Ignore the option to put in a port number – this was more to show that I know how to do it.

```
Server Begin
MachinaLabs - Communication Homework
Ben Stewart - September 2022

Please enter Port to listen on (default is 2222)

Socket Created, Waiting For Connection
```

Hit Enter and the socket will initialize and wait for a connection from the client.

Go into Client/bin/debug/net6.0 and run the exe file.

Click Open and navigate to the file in question.

Status:

Task Complete

C:\Users\Administrator\source\repos\comhw_machinalabs\cad_mesh.stl

Open

Once the file has been selected, click Process.

Process

Messages will begin to appear on the Server.

```
Socket Connected!
INcoming file: 714884 bytes
Reading File Complete
Converting STL to CSV...
File saved as output_310822_114439.stl
CSV Written To Disk
Returning file to Task A
Task A responded with OK
Task Complete, Check root directory for STL an
Process Complete, Press Any key to exit
```

The process is completely automated from that point forward – check the root directories by Server.exe for the CSV and STL outputs.

Some thoughts on what I would do differently for a production level piece of software that I had a few weeks to work on -

- ➔ I would make sure that you can a) set the port and IP numbers and b) change where to save the output files.
- ➔ The display is pretty slow, I would clean up the HMI code - the threading sucks and I would take some time to properly make sure that onscreen elements are updating properly.
- ➔ If something dies, or things are done in the wrong order, the entire process crashes and the program has to be restarted to work properly. I would put an absurd amount of effort into self righting.

Let me know if you have questions.