

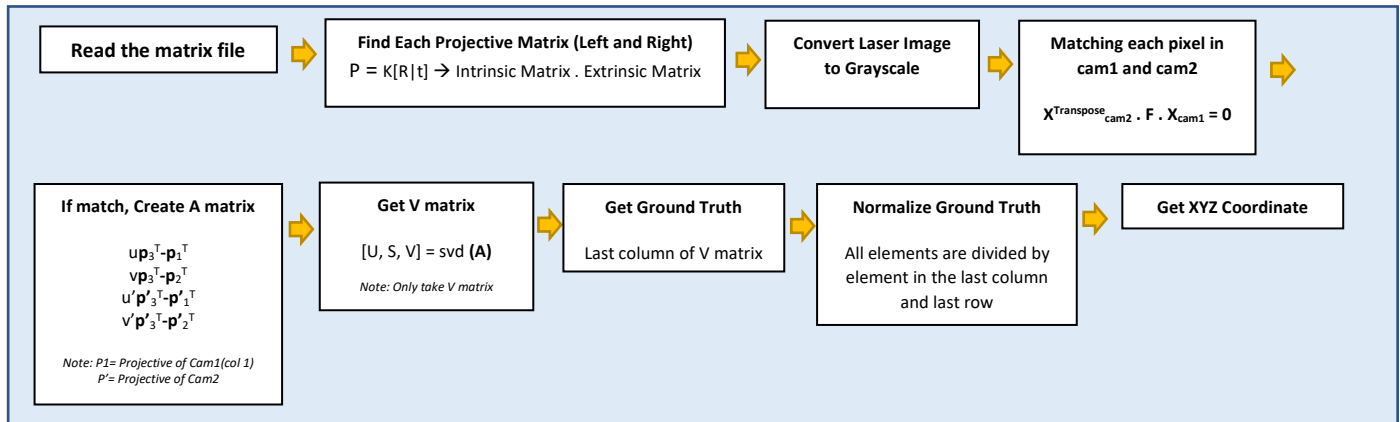
## Objective:

Reconstruct 3D from stereoscopic images and colorize the result.

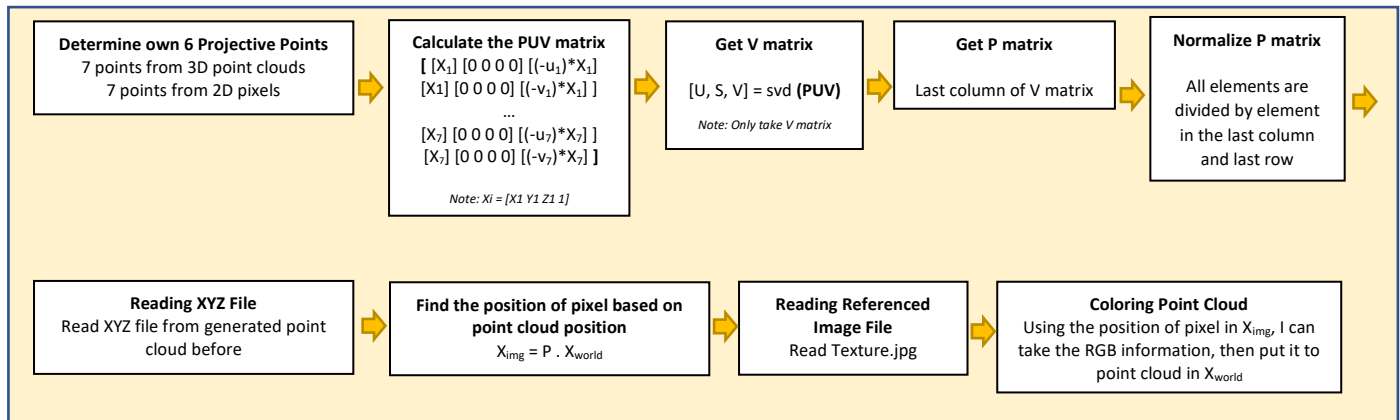
## The Flowchart of process:

I split the programs become 2: Generating Point Cloud and Coloring Point Cloud

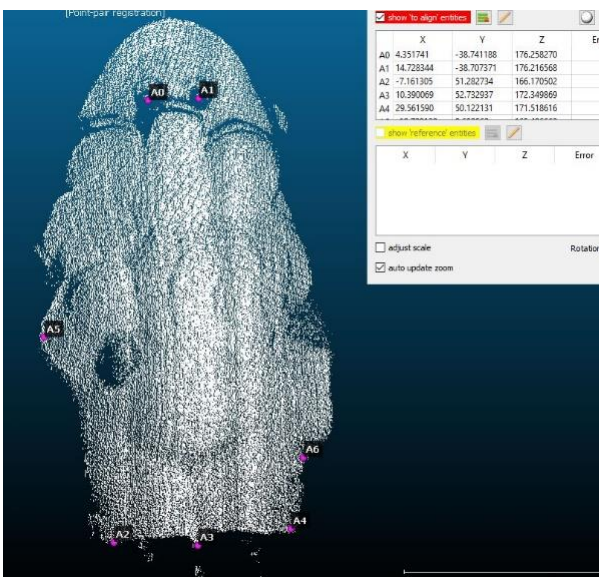
### Generating Point Cloud



### Coloring Point Cloud

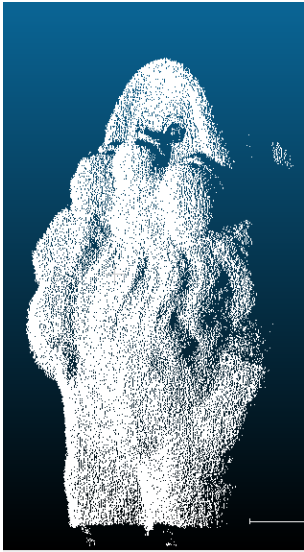
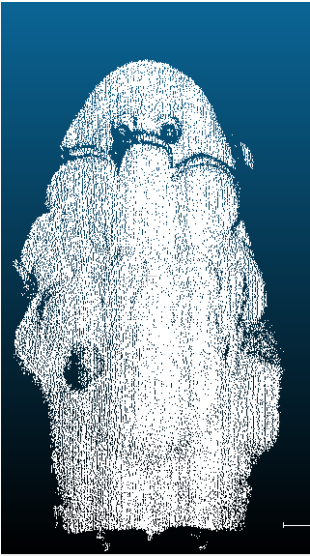
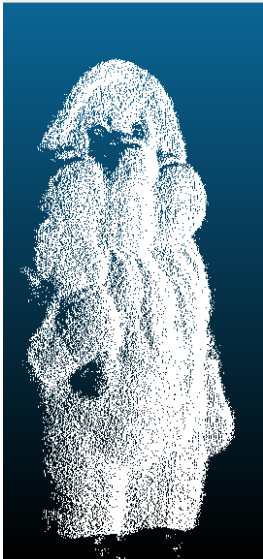
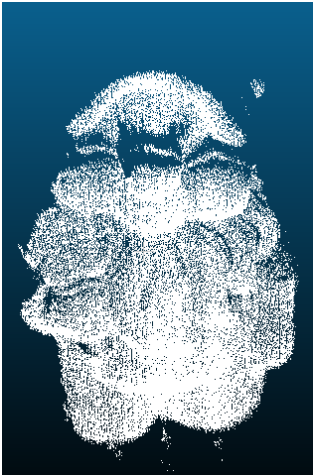
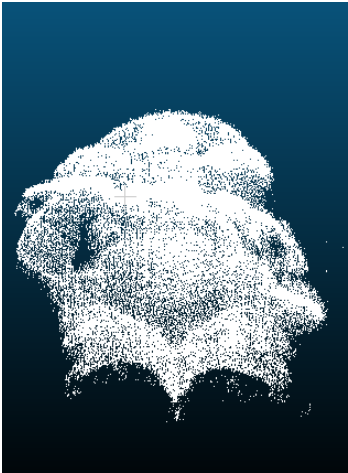


The 6 chosen projective points:



Result:

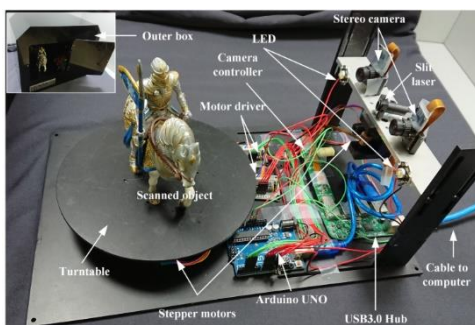
I. Generate Point Cloud

Left View	Front View	Right View
		
Top View	Bottom View	
		

## II. Coloring the Point Cloud

Left View	Front View	Right View
		
Top View	Bottom View	Reference image
		

### Observation:



In my observation, the inaccurate result of colored point clouds is because of Professor took the picture just from one view, that's why the top of the nose of statue has eye. I think if the camera is put on the slit laser position will give better result.