

ROC 2020

We certify that this project was undertaken by us for the Roboanalyzer-based online competition (ROC)" conducted by Dr. Nayan M. Kakoty of Tezpur University in collaboration with Prof. S.K Saha of IIT Delhi and Mr. Rajeevlochan C.G. of Amrita Vishwa Vidyapeetham, Bengaluru Campus during October 12, 2020, to November 30, 2020.

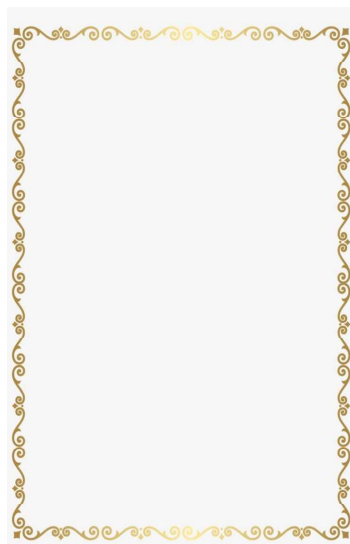
Team No. 08

- Coordinator - Shivam Dhakad
- Co-Coordinator - Kishan Lal
- Member - Pujita Bhuyan

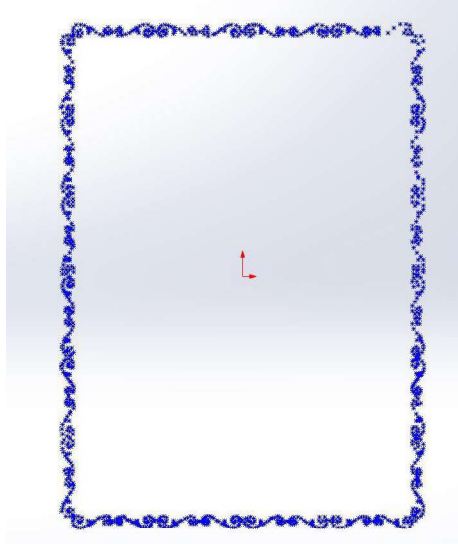
Procedure

- Firstly, For the trajectory of any object, we used softwares, Solidworks and Originlab where we can insert image and draw points. Then we convert the file from igs to txt where we can get the values of all points wrt origin.
- After we get x,y,z values, we insert all these values into excel file. We do some modifications, then we used the file to draw some particular trajectory using Roboanalyzer.
- The designs we have build are Deeya, R letter, India Map, Humanoid Robot, Commandal, Frames and our names

Method



Actual Frame



Frame conversion in Various Points using Solid - Works

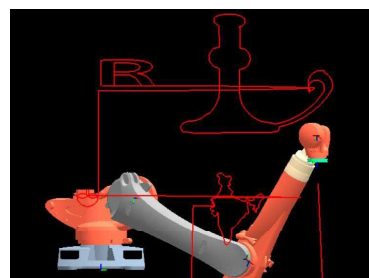
Method

	X	Y	Z	A	B	C
116,-215.12405477,-642.876732725,0,,	0	-420.301	639.886	-180	0	0
116,-213.329503345,-652.44767366,0,,	0	-417.908	-645.868	-180	0	0
116,-209.740400494,-654.242225085,0,,	0	-412.226	-645.868	-180	0	0
116,-201.664919081,-656.934052222,0,,	0	-409.534	-639.886	-180	0	0
116,-197.178540518,-656.934052222,0,,	0	-409.534	-632.409	-180	0	0
116,-190.000134818,-656.934052222,0,,	0	-420.301	-629.119	-180	0	0
116,-182.822129117,-656.934052222,0,,	0	-427.18	-629.119	-180	0	0
116,-178.81663805,-654.242225085,0,,	0	-430.47	-636.297	-180	0	0
116,-175.943015321,-647.961295097,0,,	0	-432.265	-642.578	-180	0	0
116,-175.943015321,-639.88633683,0,,	0	-430.47	-652.448	-180	0	0
116,-172.653004375,-646.16743671,0,,	0	-425.087	-656.934	-180	0	0
116,-170.559361045,-652.44767366,0,,	0	-417.908	-660.224	-180	0	0
116,-166.970258195,-647.961295097,0,,	0	-409.534	-660.224	-180	0	0
116,-162.483879632,-642.876732725,0,,	0	-402.655	-656.934	-180	0	0
116,-155.305673932,-639.88633683,0,,	0	-395.776	-652.448	-180	0	0
116,-146.931100614,-636.296710833,0,,	0	-390.691	-642.578	-180	0	0
116,-140.051006818,-632.408516079,0,,	0	-390.691	-645.868	-180	0	0
116,-131.976505405,-629.118505133,0,,	0	-395.776	-639.886	-180	0	0
116,-123.901023991,-632.408516079,0,,	0	-390.691	-642.578	-180	0	0
116,-119.414645428,-639.88633683,0,,	0	-387.102	-645.868	-180	0	0
116,-119.414645428,-647.961295097,0,,	0	-384.709	-648.559	-180	0	0
116,-126.293759225,-647.961295097,0,,	0	-382.616	-645.868	-180	0	0
116,-131.976505405,-647.961295097,0,,						
116,-134.668332542,-642.876732725,0,,						
116,-131.976505405,-639.88633683,0,,						
116,-128.307402554,-642.876732725,0,,						
116,-120.544326136,-642.876732725,0,,						

Text File

CSV File

Actual Roboanalyzer Frame Design



Designs made by us using Roboanalyzer

