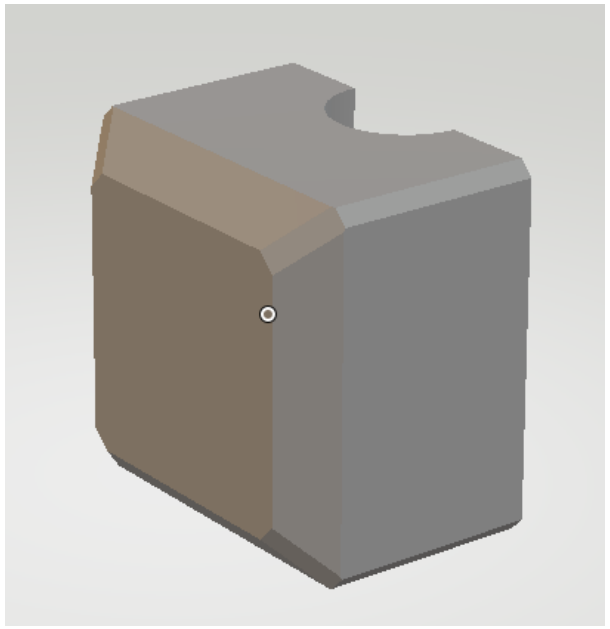
Compilation of Prototypes made in a workshop

Juan Sebastian SILVA SAAVEDRA

3rd year student of ISAE SUPAERO Engineering program.
Filière d'expertise: “Structure et matériaux”

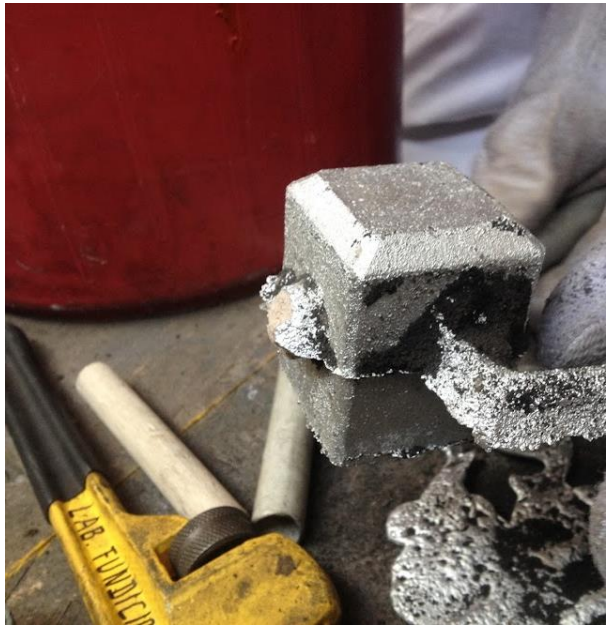
Casting a Thor’s hammer.



3D Modelling of the piece.

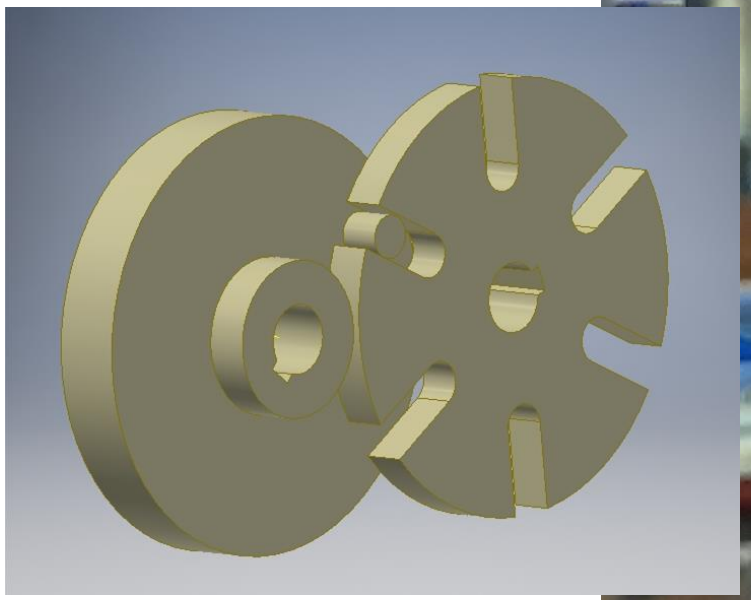
3D printed model to prepare the mould.

Gray casting the piece.

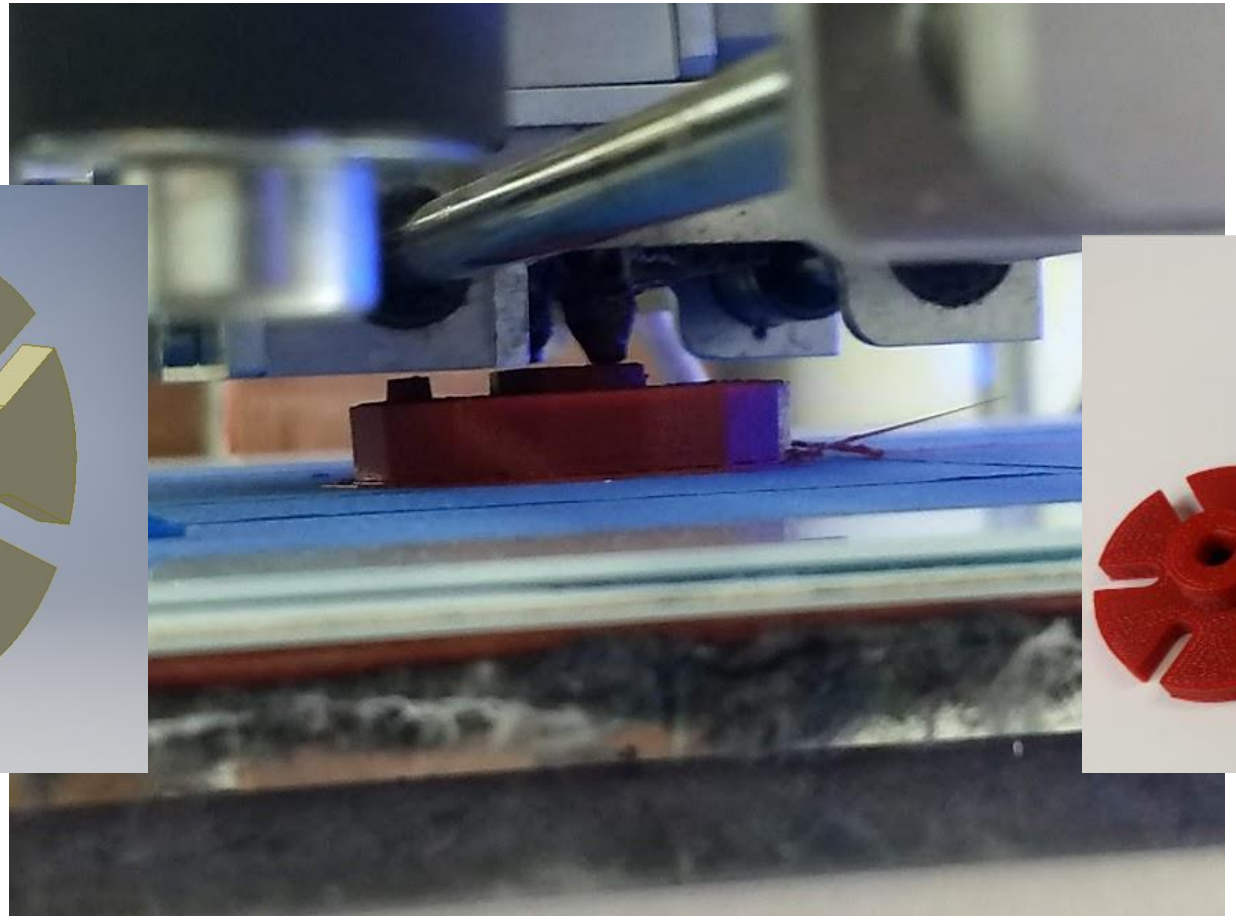


Machining of the piece

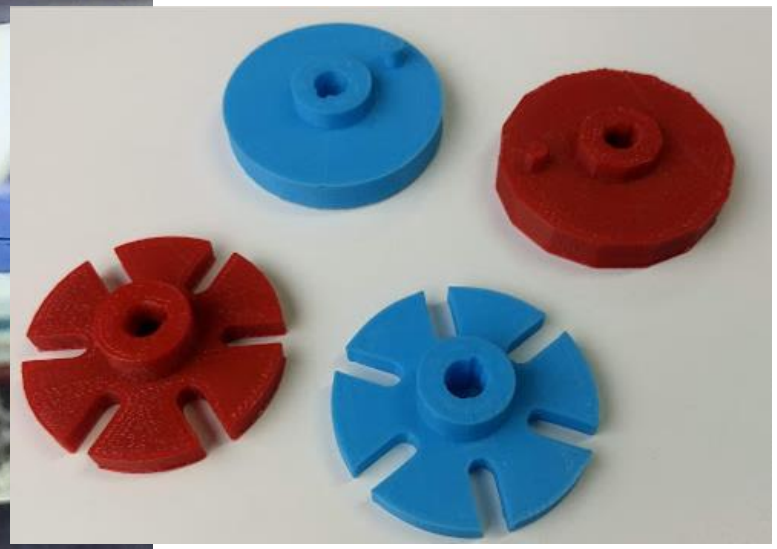
3D Printing a Geneva drive (Additive manufacturing)



Original CAD File



3D Print using using Ultimaker Cura.



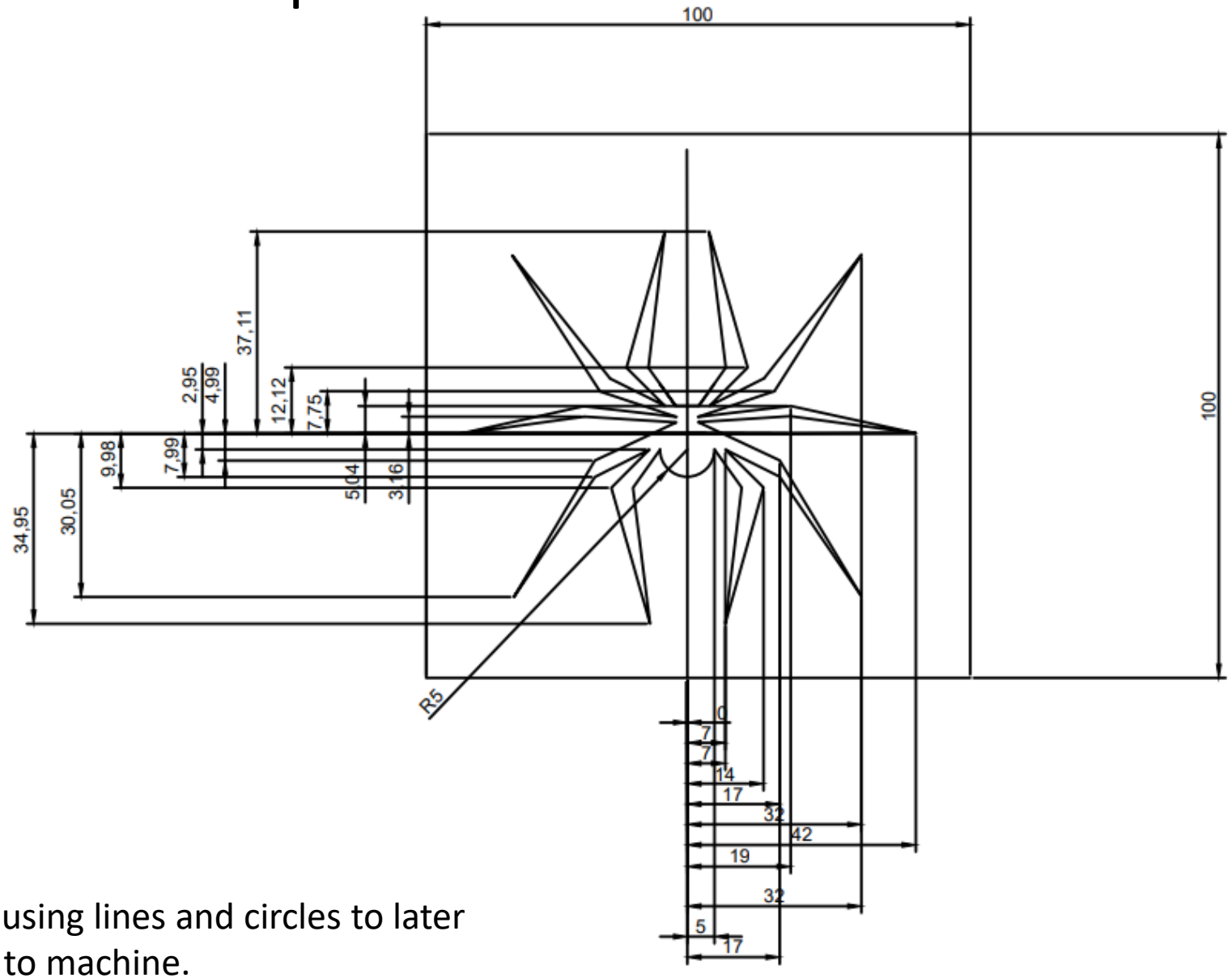
Final result.

CNC Code for a spider silhouette

- 1. M03
- 2. G90
- 3. G00 X0 Y0 Z0
- 4. G00 X0 Y0 Z100
- 5. G00 X500 Y-295 Z100
- 6. G00 X500 Y-295 Z-250
- 7. G01 X1050 Y-998 Z-250
- 8. G01 X700 Y-3495 Z-250
- 9. G01 X1400 Y-998 Z-250

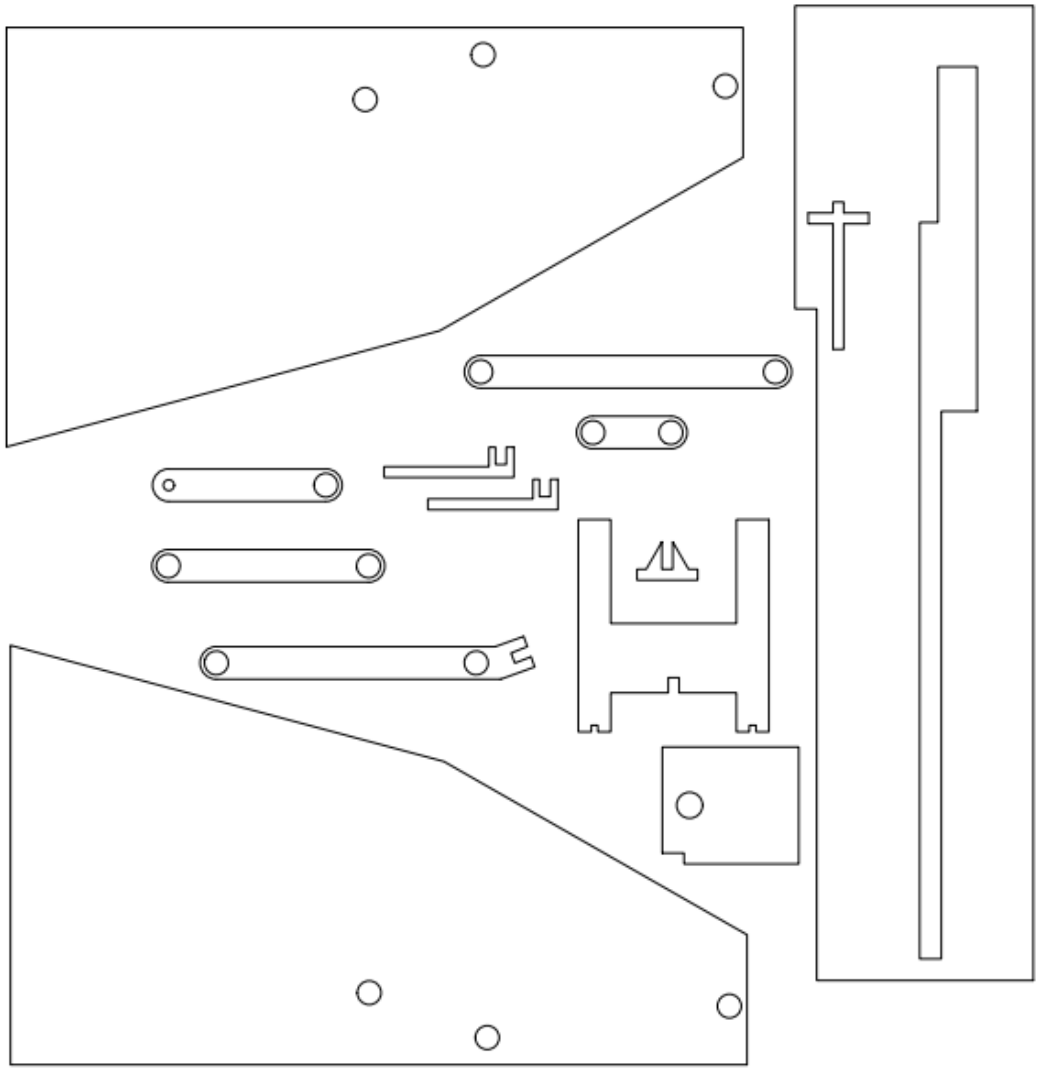
- 38. G01 X-4200 Y0 Z-250
- 39. G01 X-4200 Y0 Z-250
- 40. G01 X-1900 Y 316 Z-25
- 41. G01 X-300 Y 300 Z-250

- 53. M30

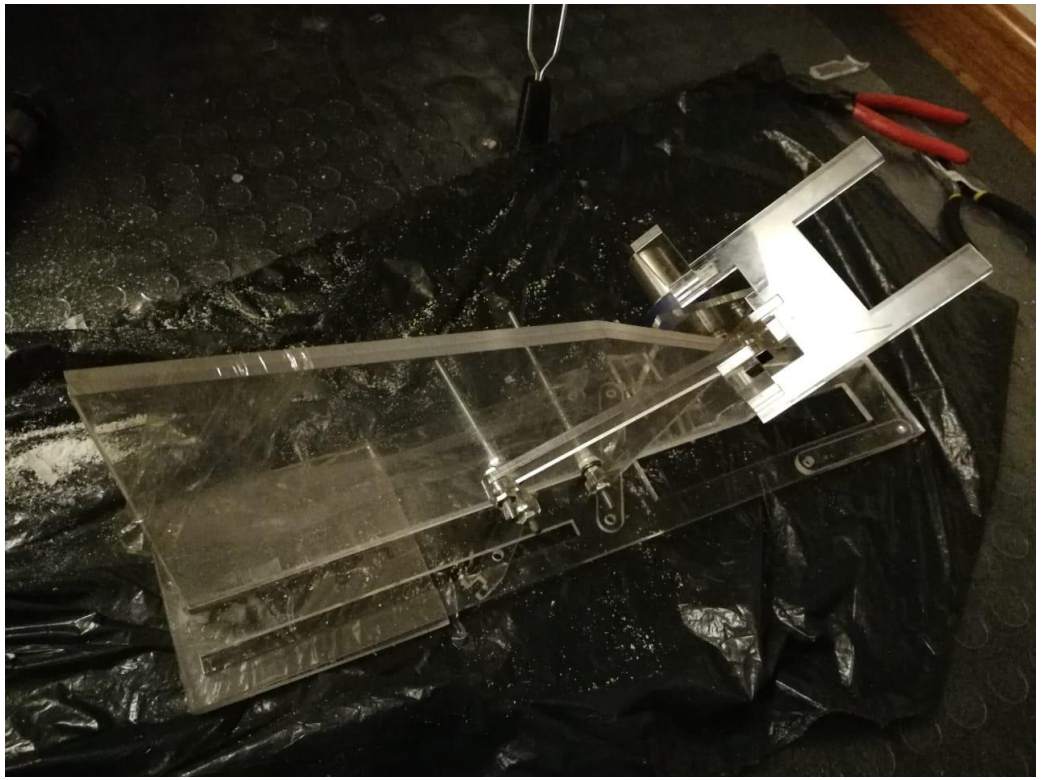


CNC code using lines and circles to later aplication to machine.

Laser cut of parts in acrylic.



Blueprinting of the parts using INVENTOR.



Assembly of the parts.

Thank you very much for reading my cover notebook! :)

If you require further information, please contact me through my e-mail address or my telephone number:

juan-sebastian.silva-saavedra@student.isae-supaero.fr
(+33) 06 59 20 72 17

And here you can find me on LinkedIn:

https://www.linkedin.com/in/jussilvasa/

sebastian silva