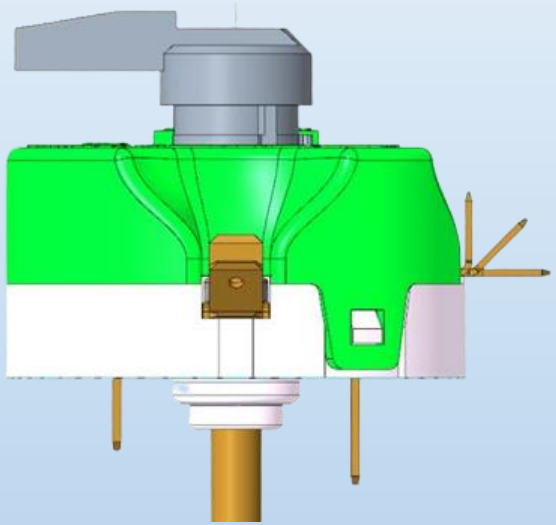
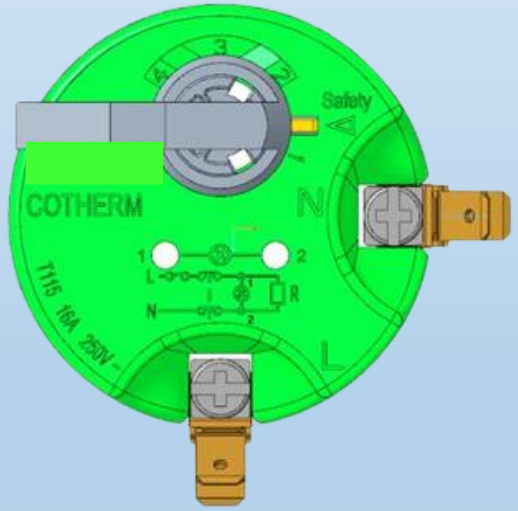
ayoub.sbei@outlook.fr www.linkedin.com/in/ayoub-sbeï 0021654210219 Tunisia

Product design



Relations and parameters are utilized to automate the design process. Together, they facilitate a parametric design approach, wherein modifications to parameters automatically update the model.

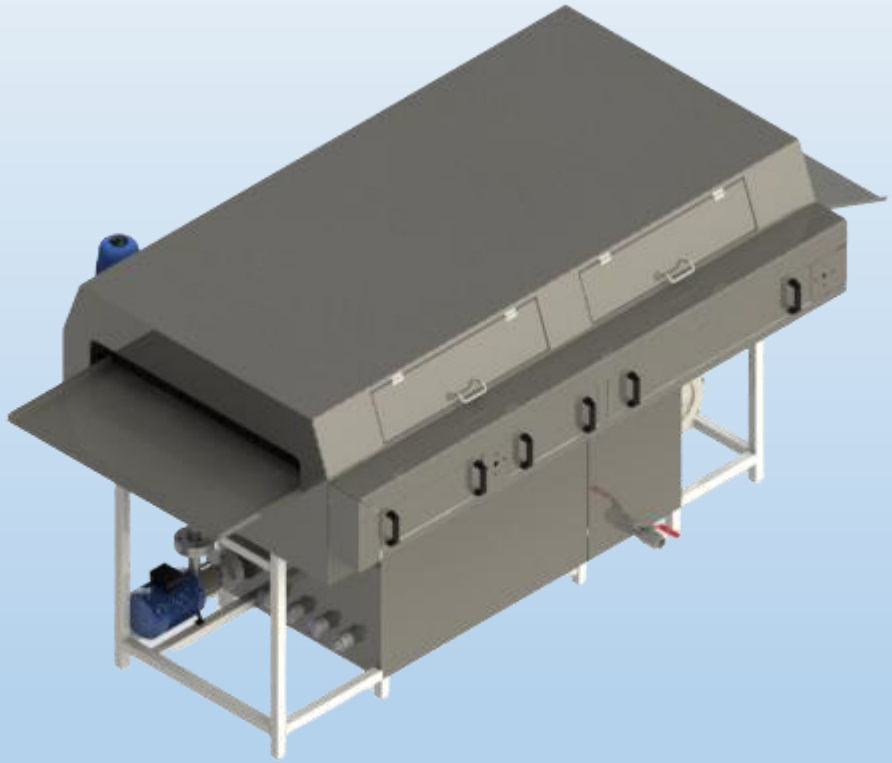


Product design was executed using the top-down design approach in Creo Parametric, ensuring greater consistency in assemblies and flexibility for updating individual parts.

ayoub.sbei@outlook.fr www.linkedin.com/in/ayoub-sbeï 0021654210219 Tunisia

Special purpose machine design and development

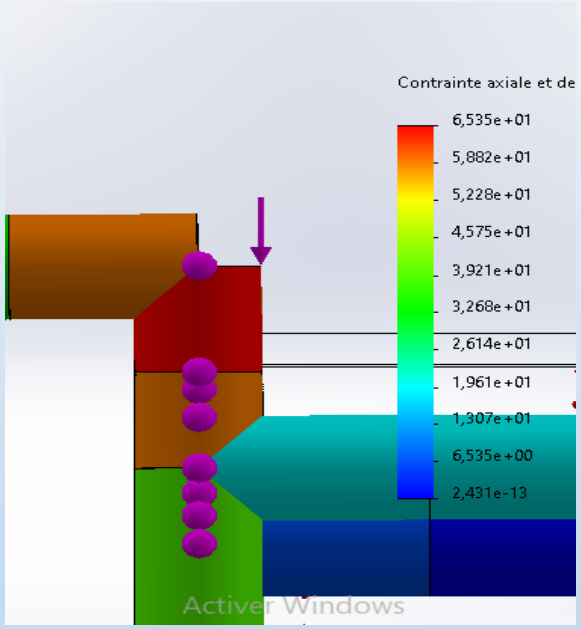
Design and development of an industrial washing machine applying advanced mechanical engineering principles, including thermodynamic analysis, structural design and finite element analysis (FEA), fluid dynamics, power transmission systems, and the integration of mechanical solutions.



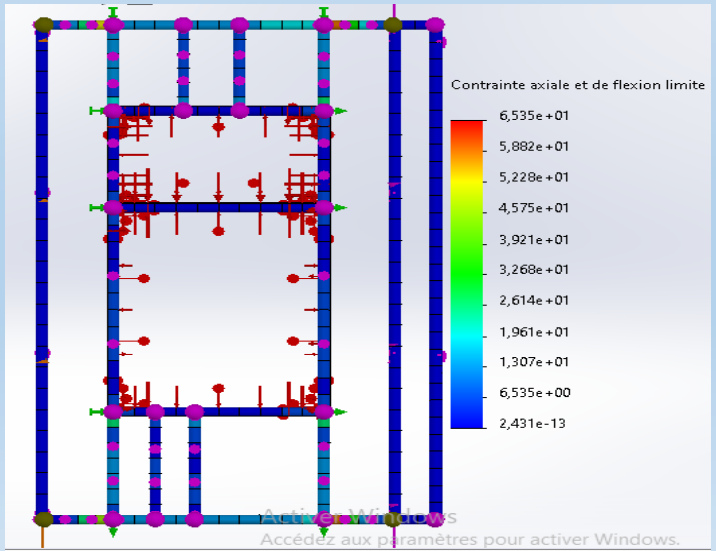
Structure and sheet metal design using solidworks

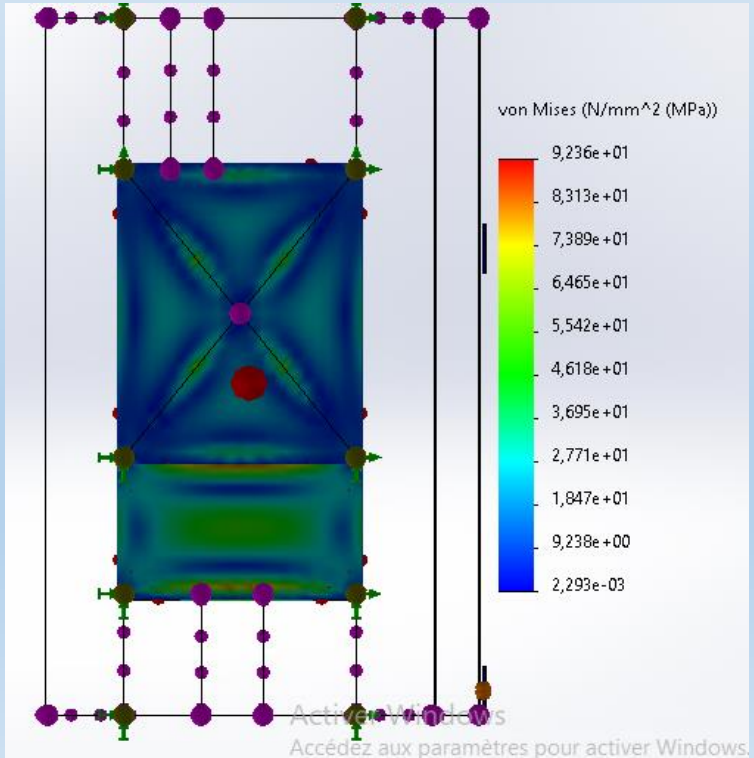
ayoub.sbei@outlook.fr www.linkedin.com/in/ayoub-sbeï 0021654210219 Tunisia

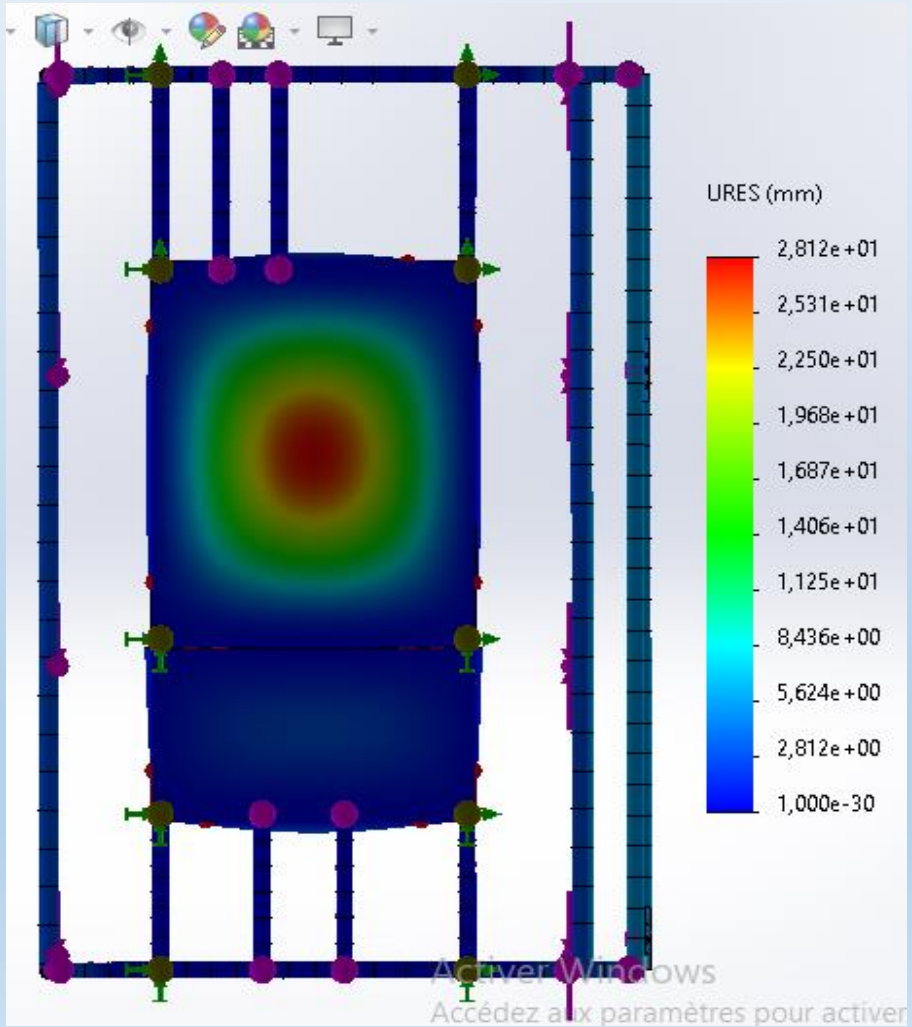
Special purpose machine design and development



Finite element simulation was employed for material selection and to enhance the mechanical behavior of the machine.







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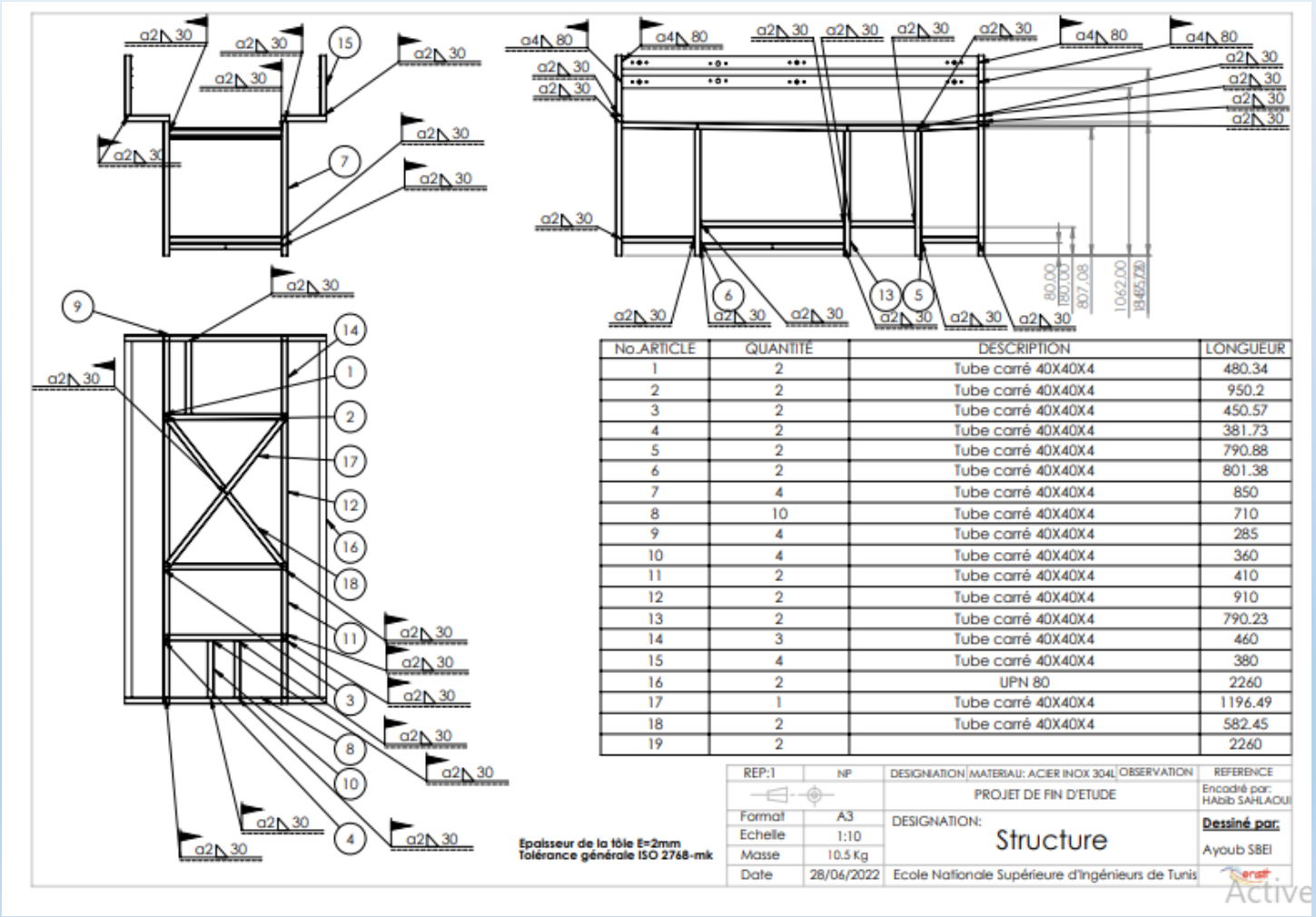
Special purpose machine design and development

Fabrication drawing of the structure



No.ARTICLE	QUANTITE	DESCRIPTION	LONGUEUR
1	2	Tube carré 40X40X4	480.34
2	2	Tube carré 40X40X4	950.2
3	2	Tube carré 40X40X4	450.57
4	2	Tube carré 40X40X4	381.73
5	2	Tube carré 40X40X4	790.88
6	2	Tube carré 40X40X4	801.38
7	4	Tube carré 40X40X4	850
8	10	Tube carré 40X40X4	710
9	4	Tube carré 40X40X4	285
10	4	Tube carré 40X40X4	360
11	2	Tube carré 40X40X4	410
12	2	Tube carré 40X40X4	910
13	2	Tube carré 40X40X4	790.23
14	3	Tube carré 40X40X4	460
15	4	Tube carré 40X40X4	380
16	2	UPN 80	2260
17	1	Tube carré 40X40X4	1196.49
18	2	Tube carré 40X40X4	582.45
19	2		2260

Epaisseur de la tôle E=2mm
Tolérance générale ISO 2768-mk

REP:1	NP	DESIGNATION	MATERIAU: ACIER INOX 304L	OBSERVATION	REFERENCE
		PROJET DE FIN D'ETUDE			Encadré par: Habib SAHLAOUI
Format	A3	DESIGNATION: Structure			Dessiné par: Ayoub SBEI
Echelle	1:10				
Masse	10.5 Kg				
Date	28/06/2022	Ecole Nationale Supérieure d'Ingénieurs de Tunis			

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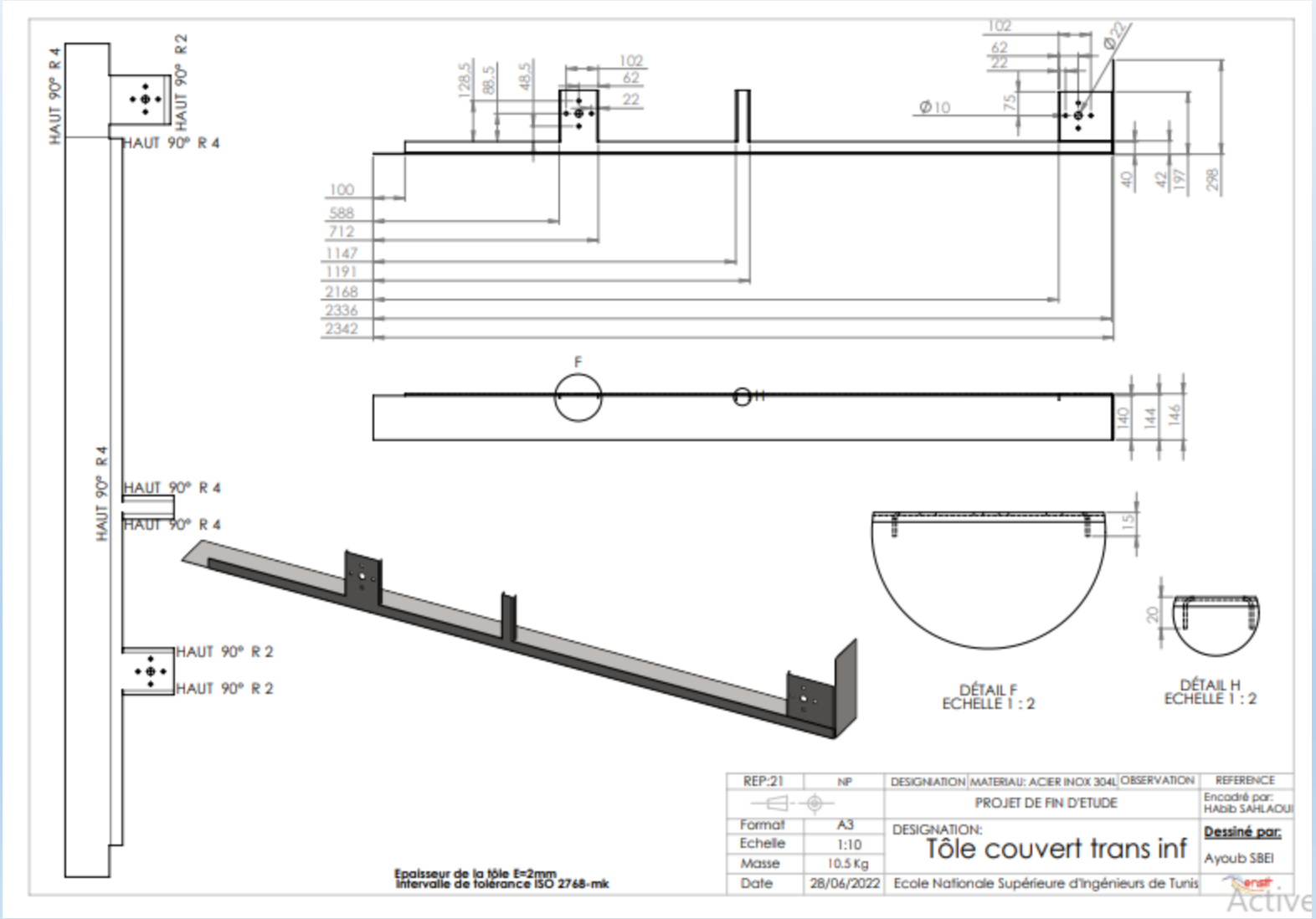
Special purpose machine design and development

Fabrication drawing of a sheet metal part from the machine



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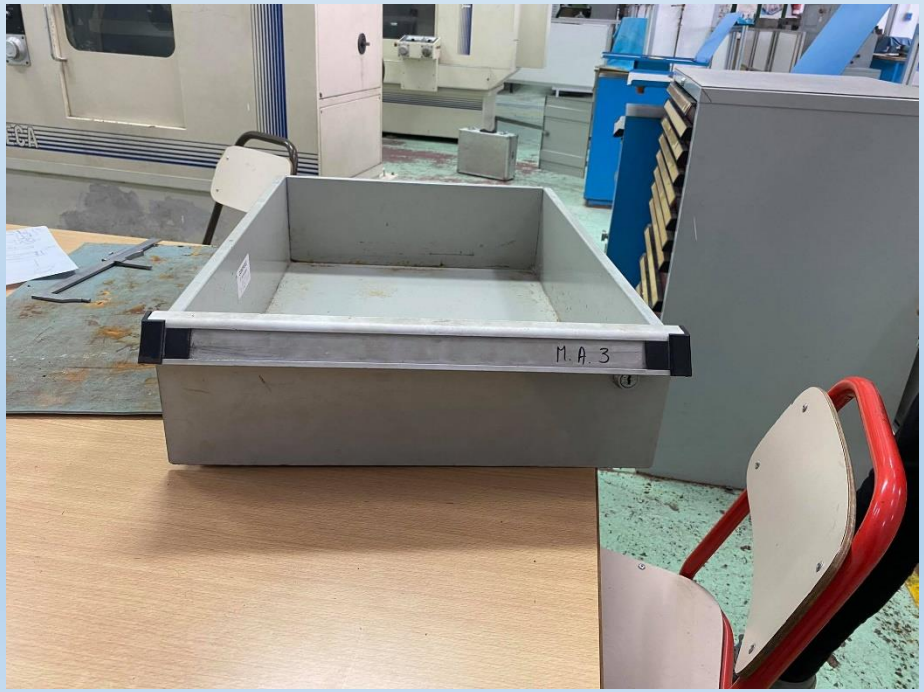
Reverse engineering

Redesigning of a tool storage cabinets for mechanical equipment using sheet metal module of SOLIDWORKS



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Reverse engineering

The result after using SOLIDWORKS for designing and KEYSHOT for rendering