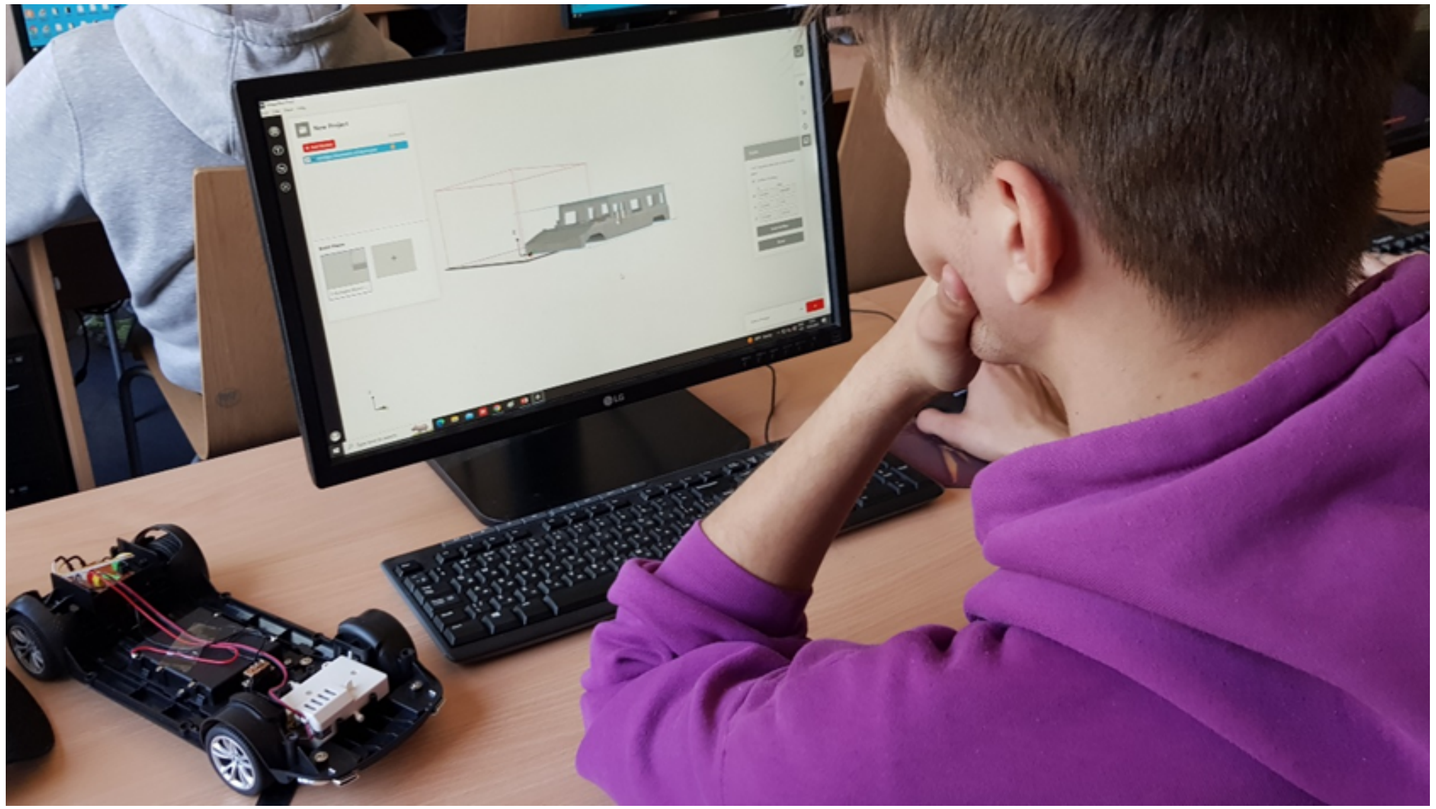
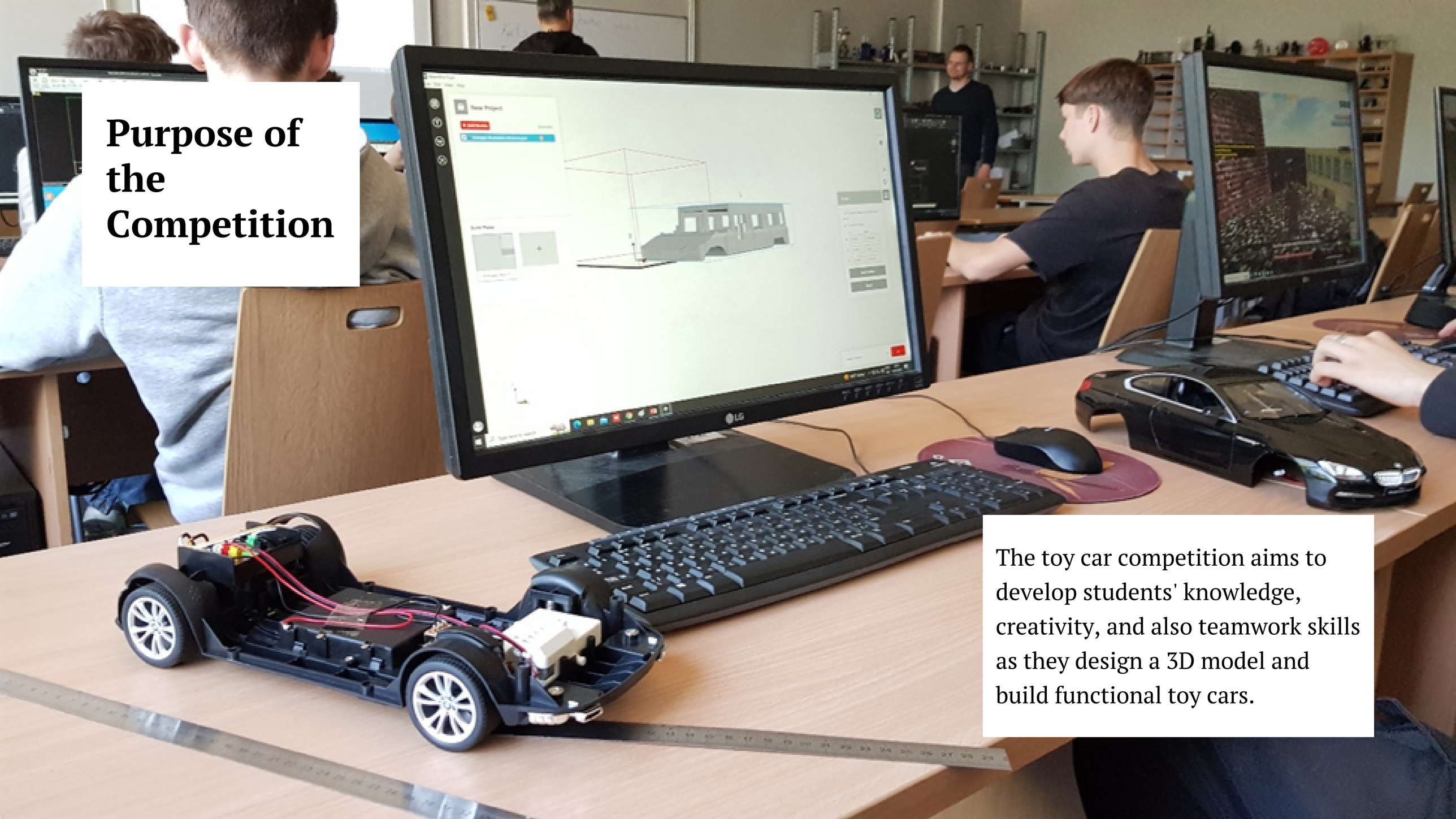
Co-funded by
the European Union

Wheels of Creativity: The Toy Car Making Competition 01.06.2023.



Purpose of the Competition



The toy car competition aims to develop students' knowledge, creativity, and also teamwork skills as they design a 3D model and build functional toy cars.

Accomplished:

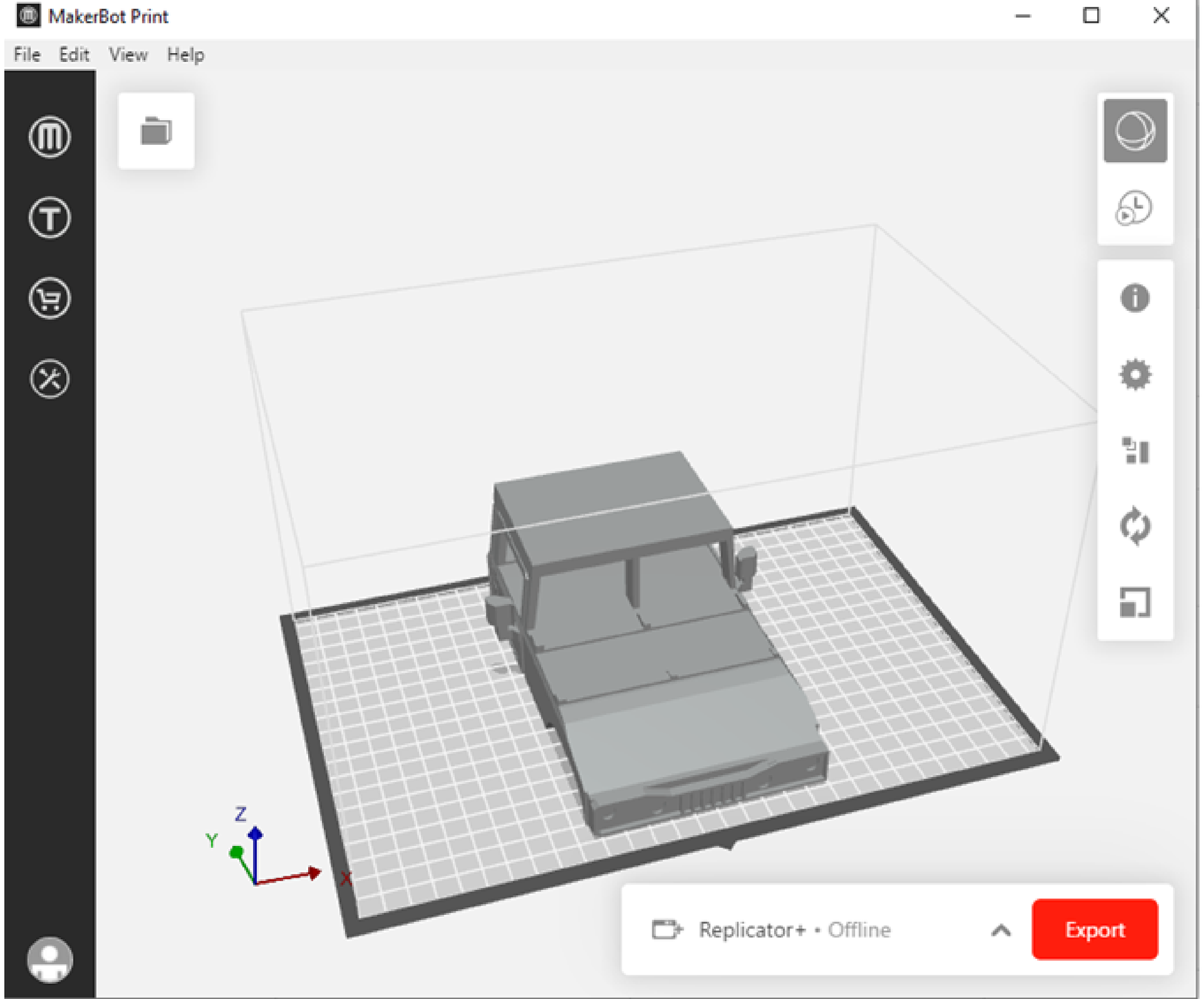
Students chose the car they want to create, did research about it, 3D design, and also prepared a presentation about their completed work. Students made car 3D models in AutoCad, SolidEdge and BLENDER programs.

Work performance in 3D:

Sudents searched on Internet for sketches/drawings of a real car with views from all sides, copied it, transferred it to a 3D program and then converted the sketch/drawing into a 3D model.

Printing:

Models was converted to MakerBot Print before printing, and will be printed on the MakerBot Replicator+ 3D printer.


MakerBot Print
File
Edit
View
Help
Z
Y
X
Replicator+ • Offline
Export

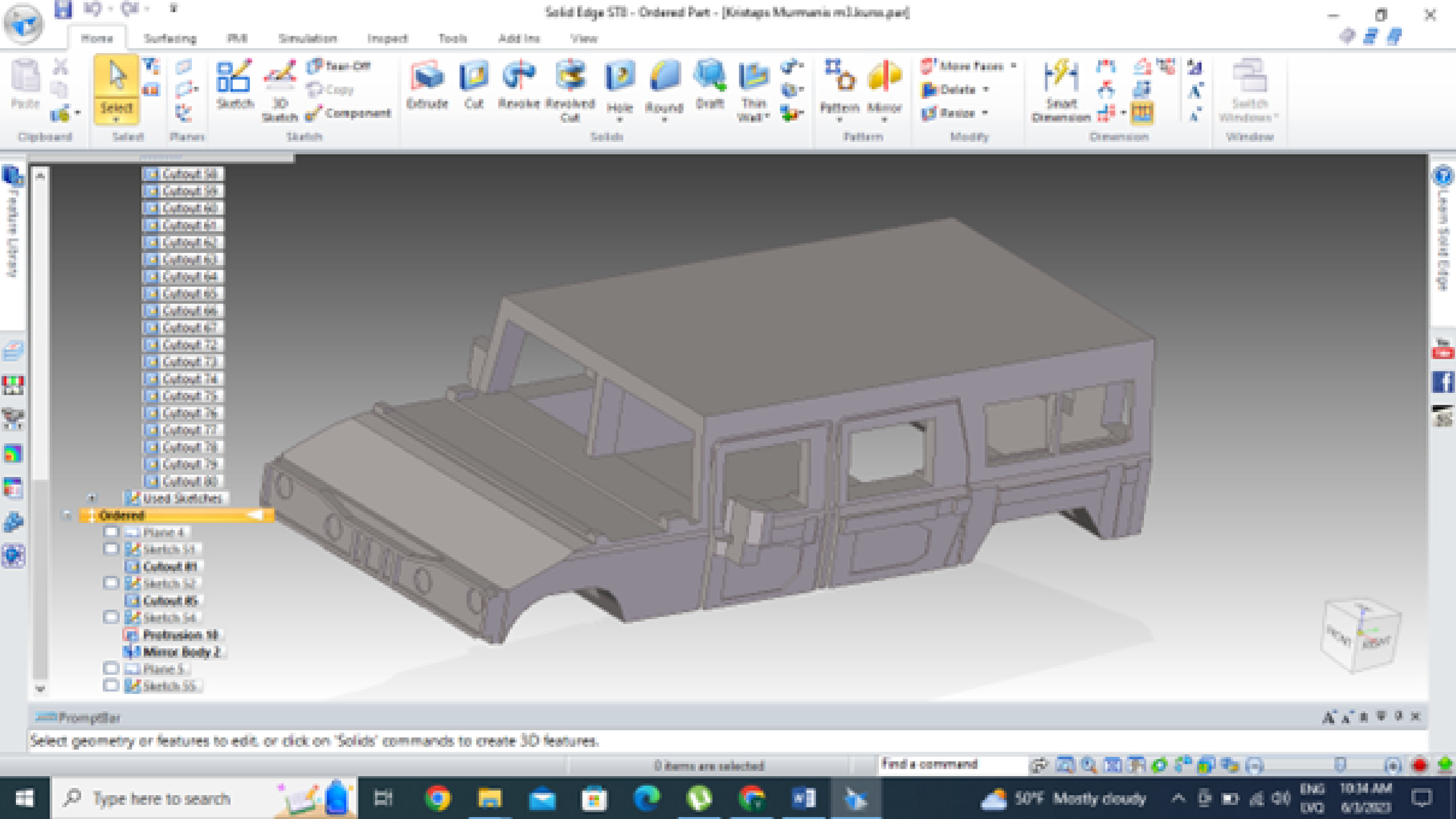
Rating:

All students got marks for their created model. As a result, it can be seen that they do not know how to use the plane construction operations of the 3D modeling section (they did not create it), and it was better to use cubic models (armored vehicles, all-terrain vehicles).

Studnets also evaluated their colleagues themselves. After the voting results, the three best models were chosen, which will be printed and assembled for radio control.

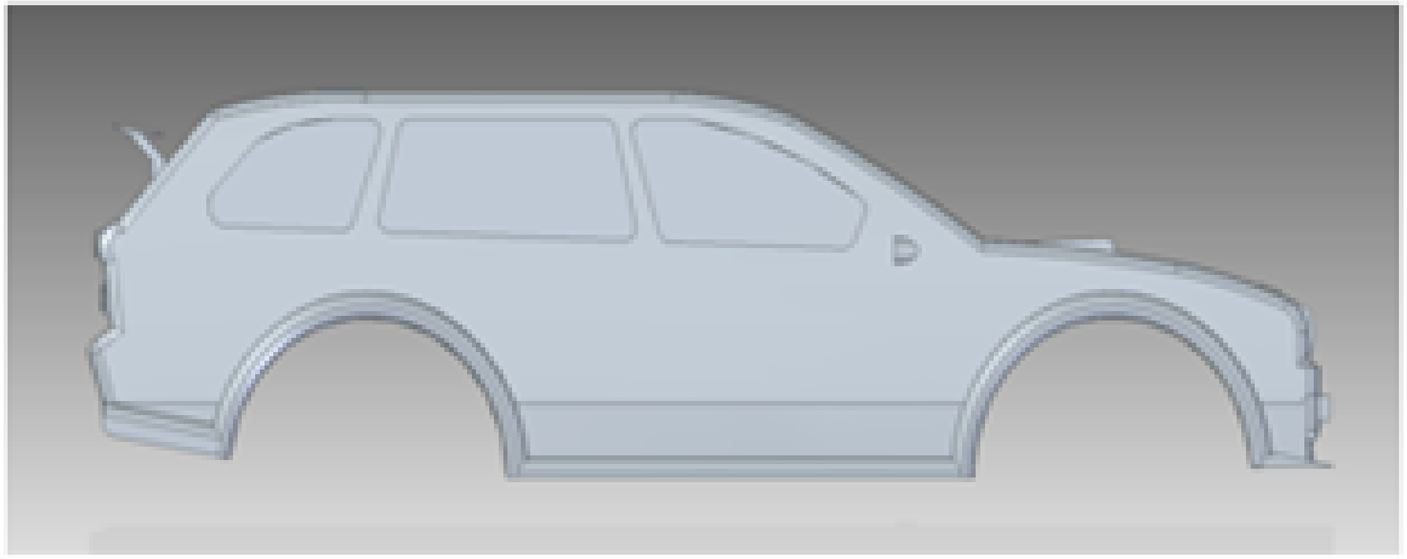
Presentations:

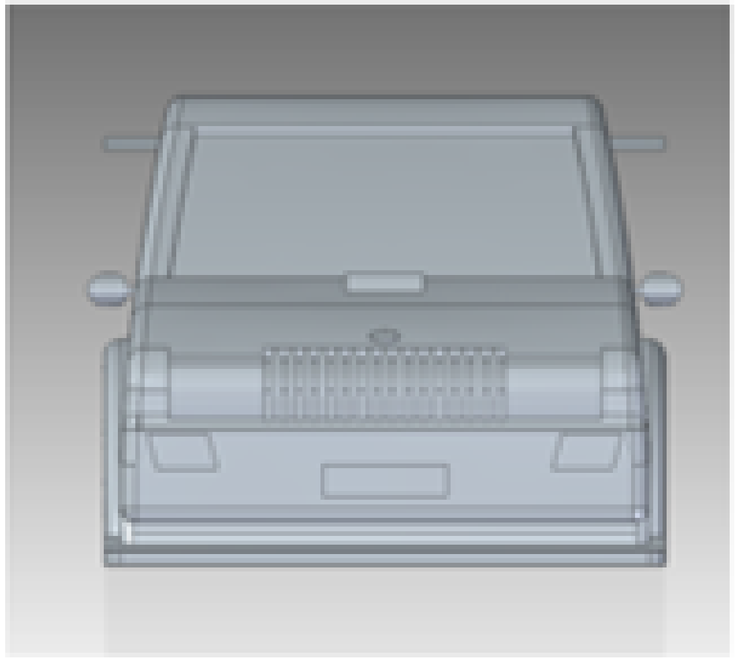
Everyone had to present their work. The Powerpoint program was chosen as an auxiliary tool for this. Students man had to briefly demonstrate which car he chooses and present what the result was for all other students.

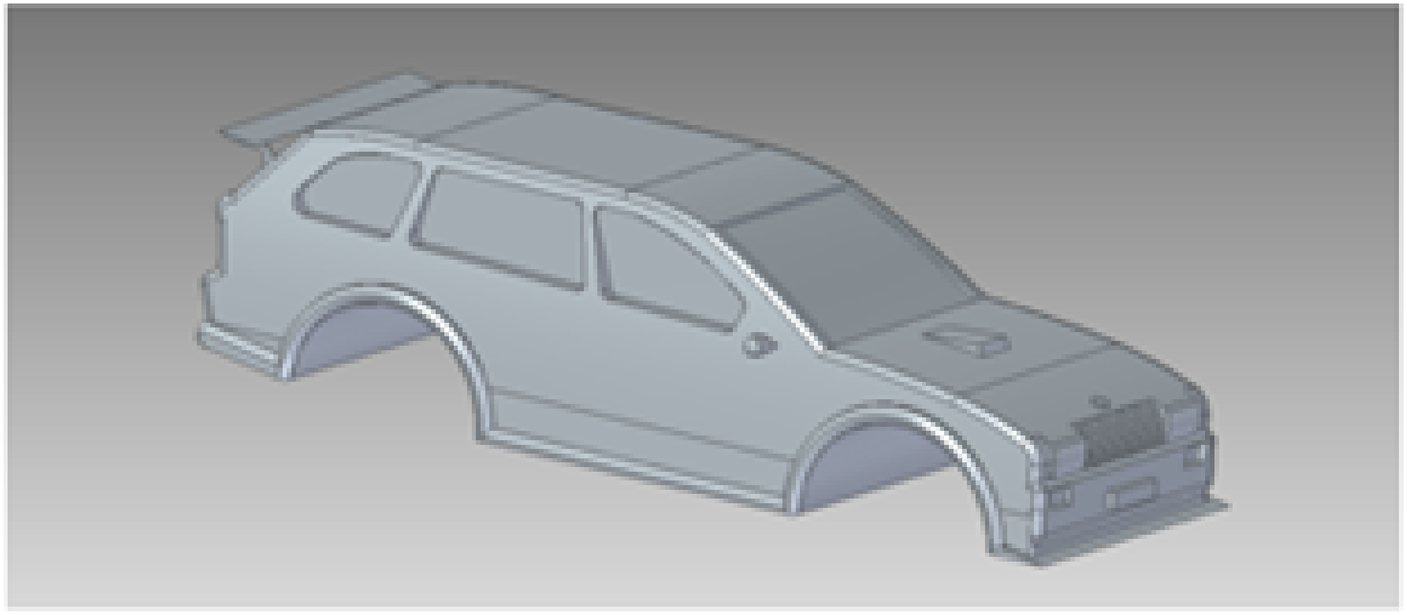

Solid Edge ST8 - Ordered Part - [Kristaps Murmanis m3.bumo.par]
Home
Surfacing
PMI
Simulation
Inspect
Tools
Add-Ins
View
Paste
Select
Sketch
3D Sketch
Tear-Off
Copy
Component
Extrude
Cut
Revolve
Revolved Cut
Hole
Round
Draft
Thin Wall
Pattern
Mirror
Move Faces
Delete
Resize
Smart Dimension
Switch Windows
Clipboard
Select
Planes
Sketch
Solids
Pattern
Modify
Dimension
Window
Cutout 58
Cutout 59
Cutout 60
Cutout 61
Cutout 62
Cutout 63
Cutout 64
Cutout 65
Cutout 66
Cutout 67
Cutout 72
Cutout 73
Cutout 74
Cutout 75
Cutout 76
Cutout 77
Cutout 78
Cutout 79
Cutout 80
Used Sketches
Ordered
Plane 4
Sketch 51
Cutout 81
Sketch 52
Cutout 85
Sketch 54
Protrusion 10
Mirror Body 2
Plane 5
Sketch 55
PromptBar
Select geometry or features to edit, or click on 'Solids' commands to create 3D features.
0 items are selected
Find a command
Type here to search
50°F Mostly cloudy
ENG
10:14 AM

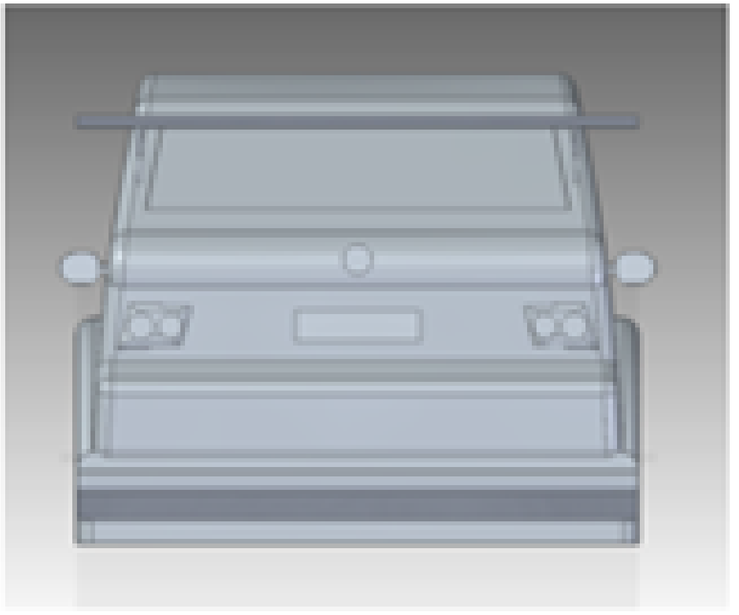
3D modelis

3D modeli es taisīju programmā Solid Edge



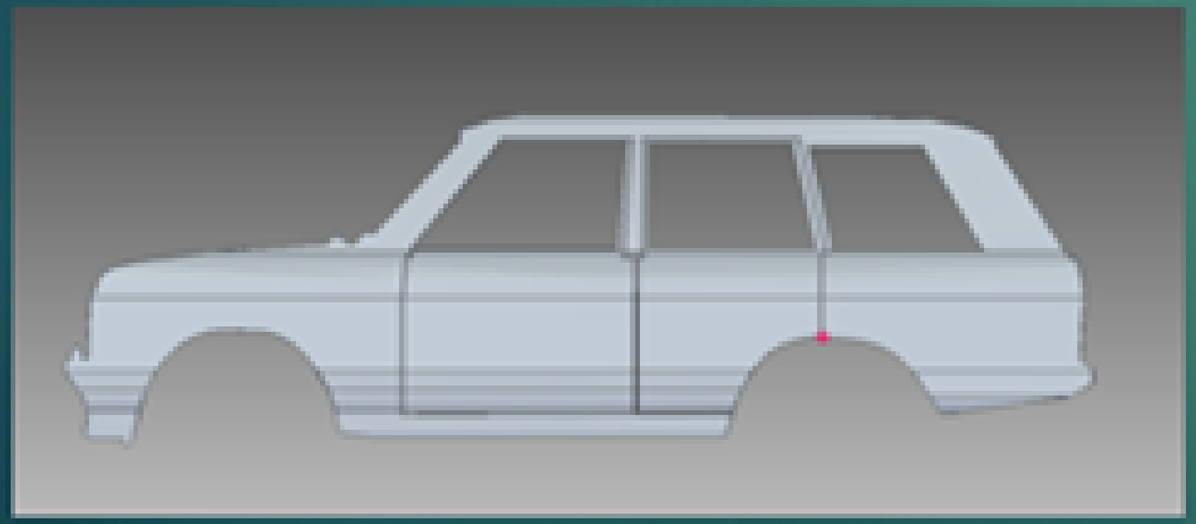


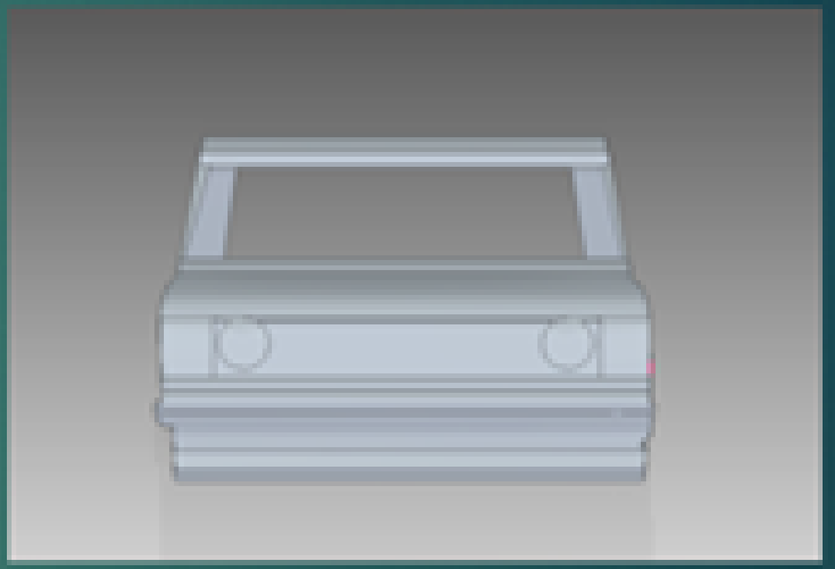


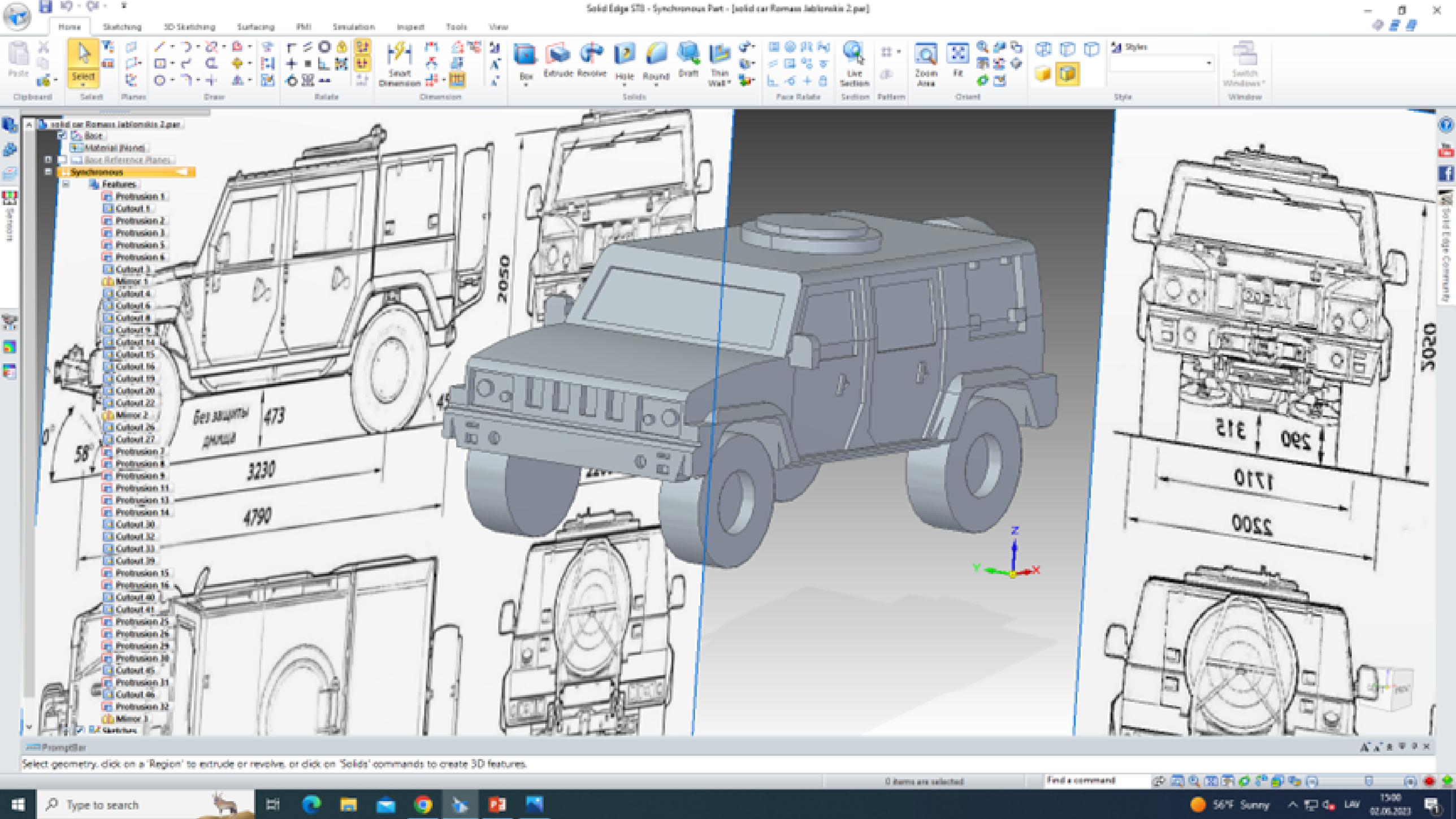


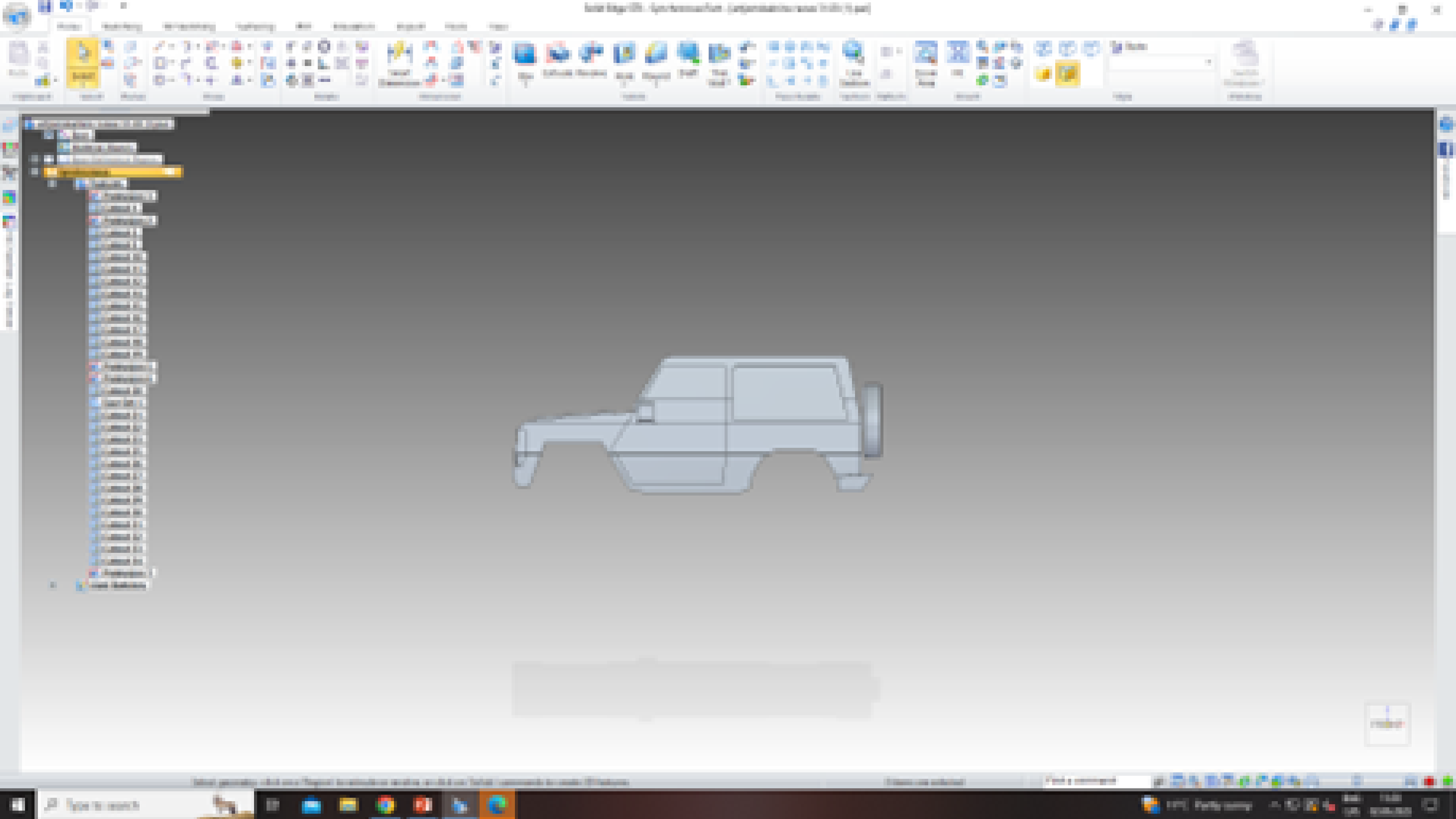
3d modelis

- 3d modeli veidoju SolidEdge programmā.

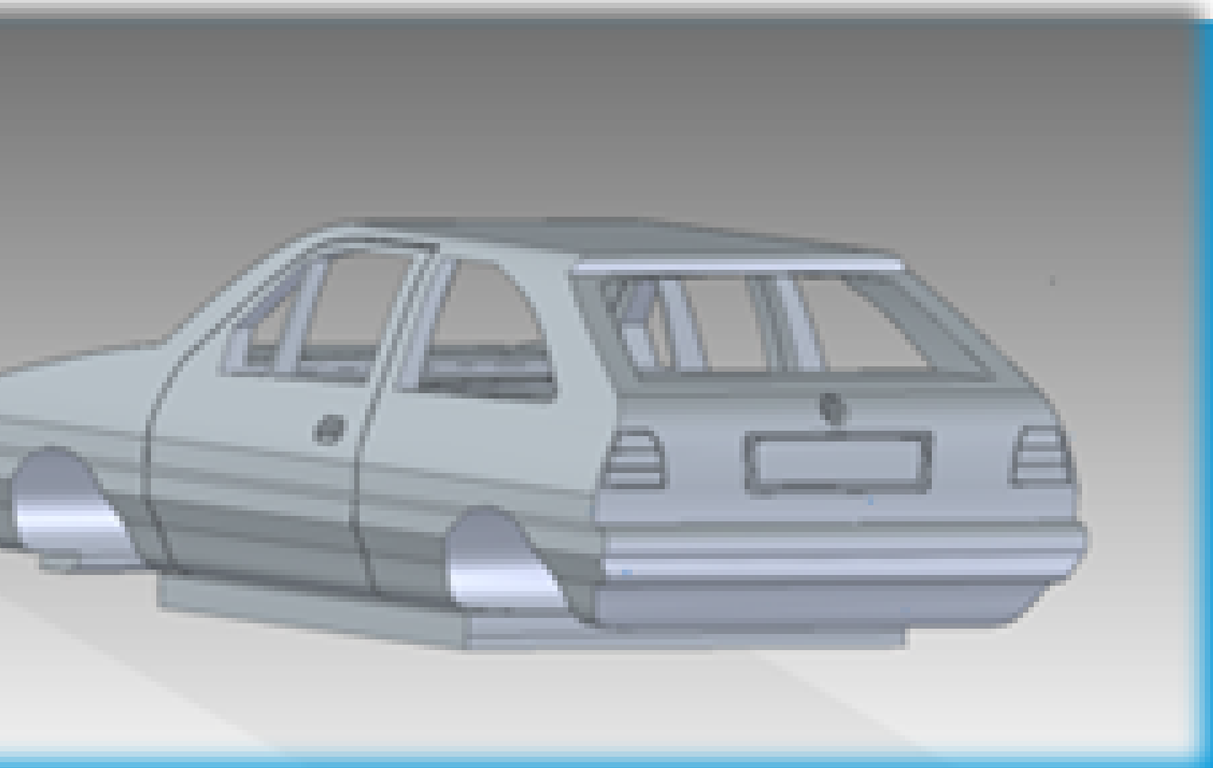


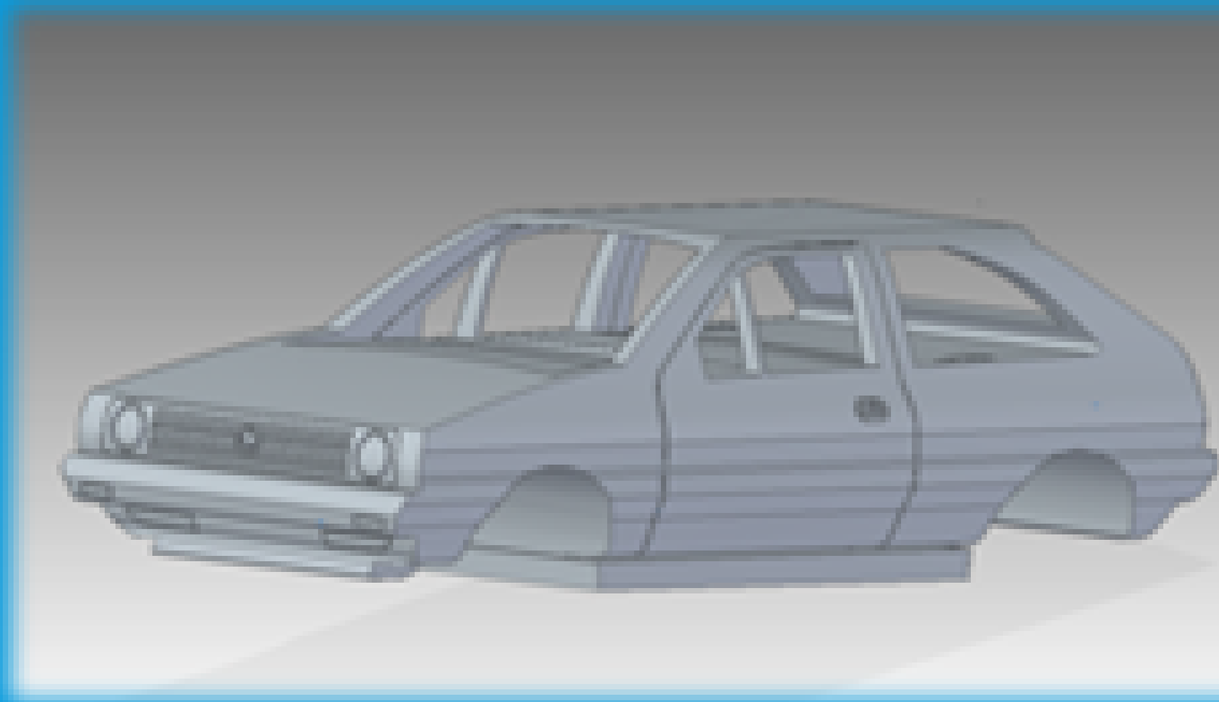


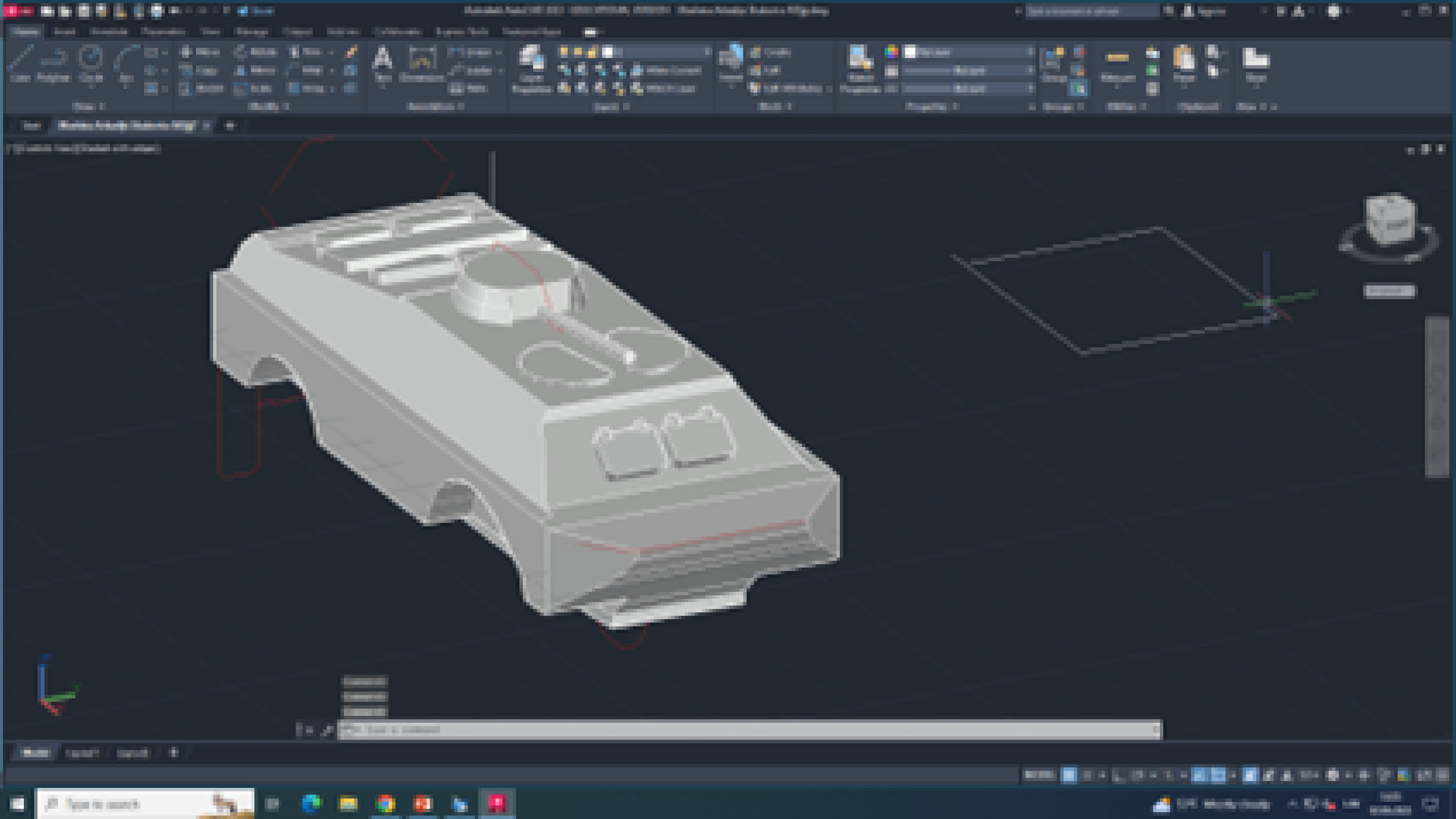

Solid Edge ST10 - Synchronous Part - [solid car Romass Jablonskis 2.par]
Home
Sketching
3D Sketching
Surfacing
PMI
Simulation
Inspect
Tools
View
Select
Box
Extrude
Revolve
Hole
Round
Draft
Thin Wall
Smart Dimension
Live Section
Zoom Area
Fit
Styles
solid car Romass Jablonskis 2.par
Base
Material (None)
Base Reference Planes
Synchronous
Features
Protrusion 1
Cutout 1
Protrusion 2
Protrusion 3
Protrusion 5
Protrusion 6
Cutout 3
Mirror 1
Cutout 4
Cutout 6
Cutout 8
Cutout 9
Cutout 14
Cutout 15
Cutout 16
Cutout 19
Cutout 20
Cutout 22
Mirror 2
Cutout 26
Cutout 27
Protrusion 7
Protrusion 8
Protrusion 9
Protrusion 11
Protrusion 13
Protrusion 14
Cutout 30
Cutout 32
Cutout 33
Cutout 39
Protrusion 15
Protrusion 16
Cutout 40
Cutout 41
Protrusion 25
Protrusion 26
Protrusion 29
Protrusion 30
Cutout 45
Protrusion 31
Cutout 46
Protrusion 32
Mirror 3
Без защиты днища
473
3230
4790
2050
58°
315
290
1710
2200
3020
Z
Y
X
Select geometry, click on a 'Region' to extrude or revolve, or click on 'Solids' commands to create 3D features.
0 items are selected
Find a command
Type to search
56°F Sunny
ENG
15:00
02.05.2023

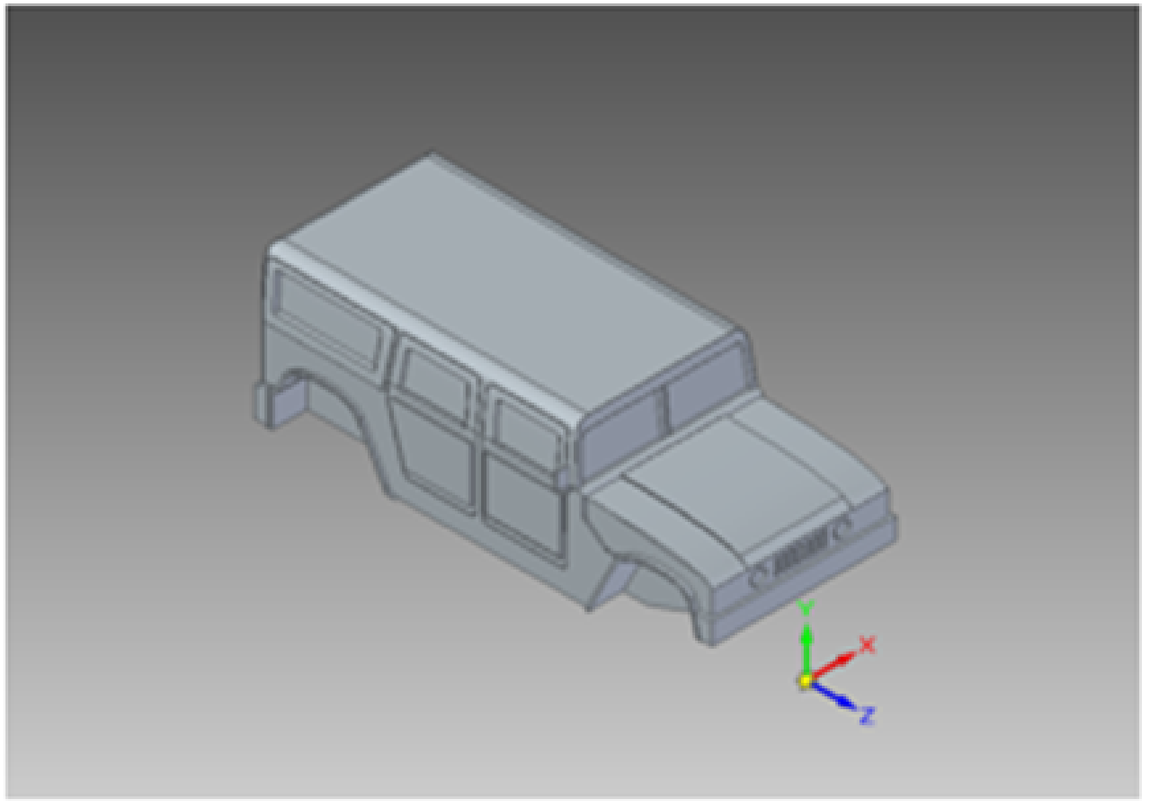


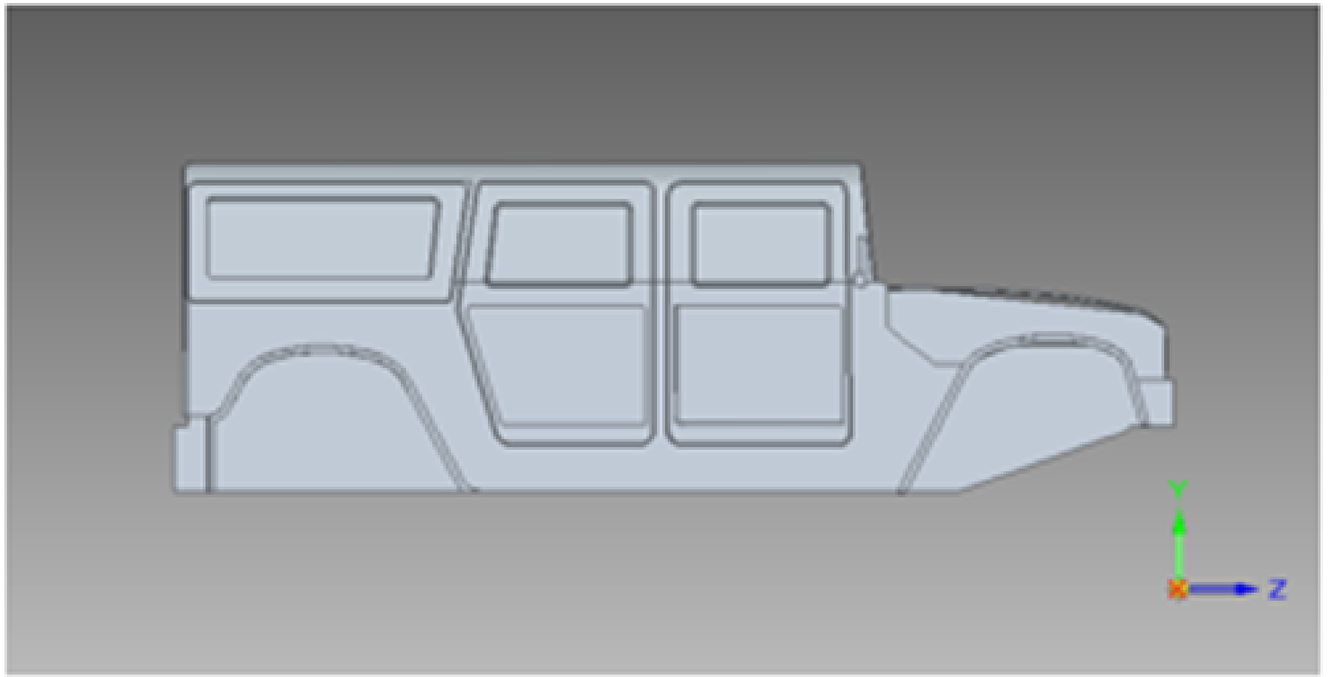
MODELIS








Y
X
Z


Y
X
Z

Celebrating Creativity and Innovation

The toy car making competition showcase the students' creativity and innovation.

Thank you for letting us share our passion for toy car making with you!