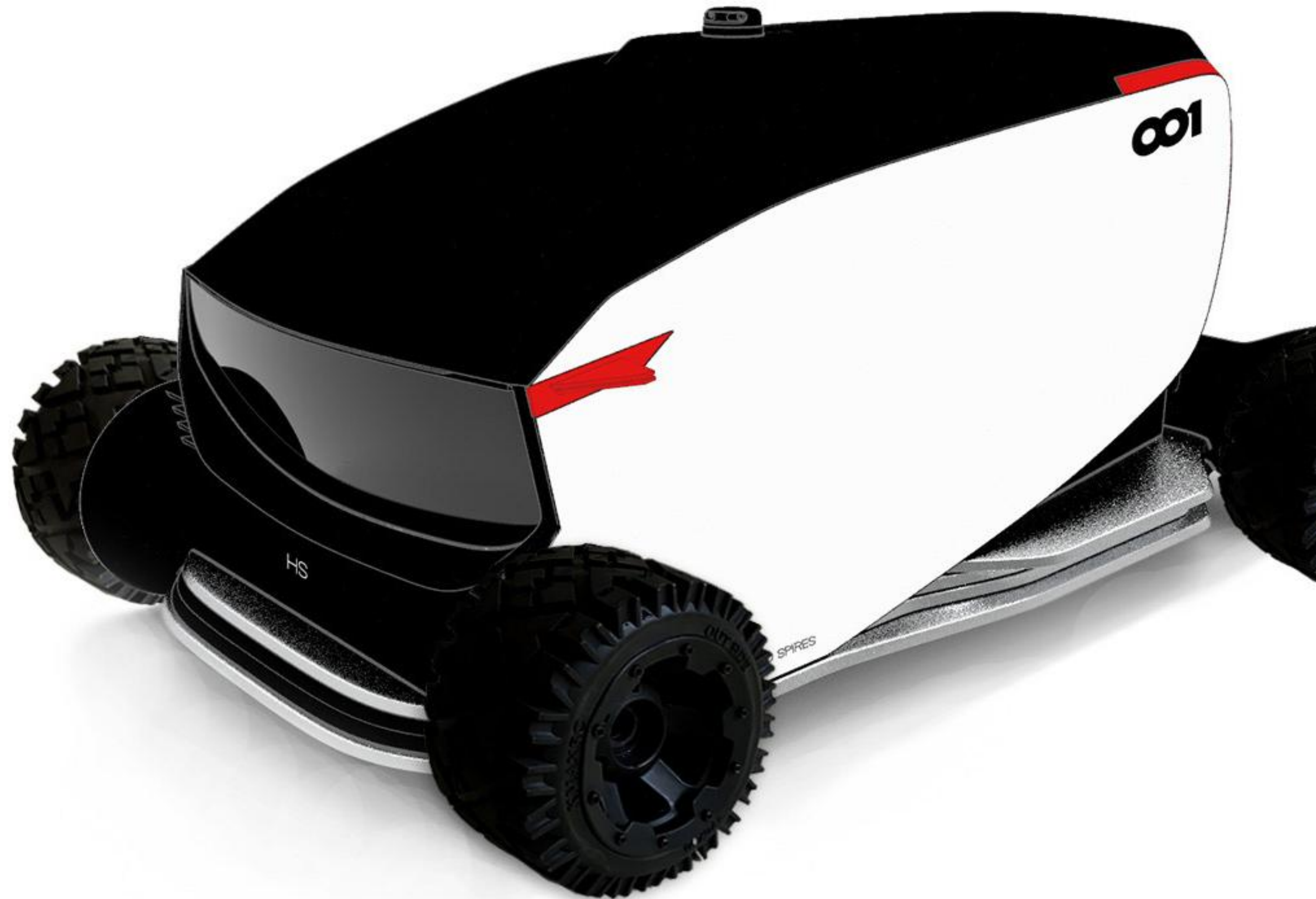


VANILLA

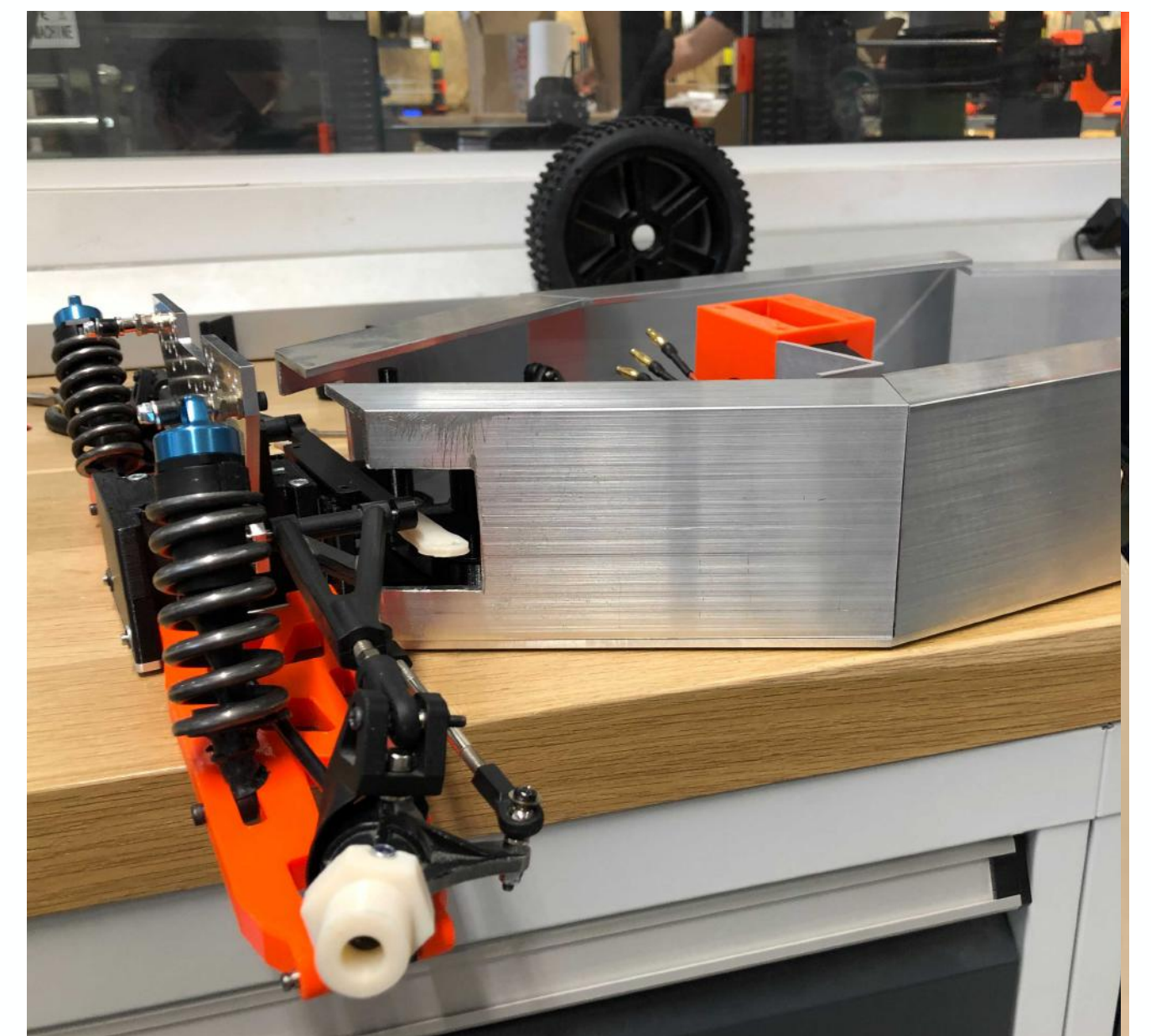
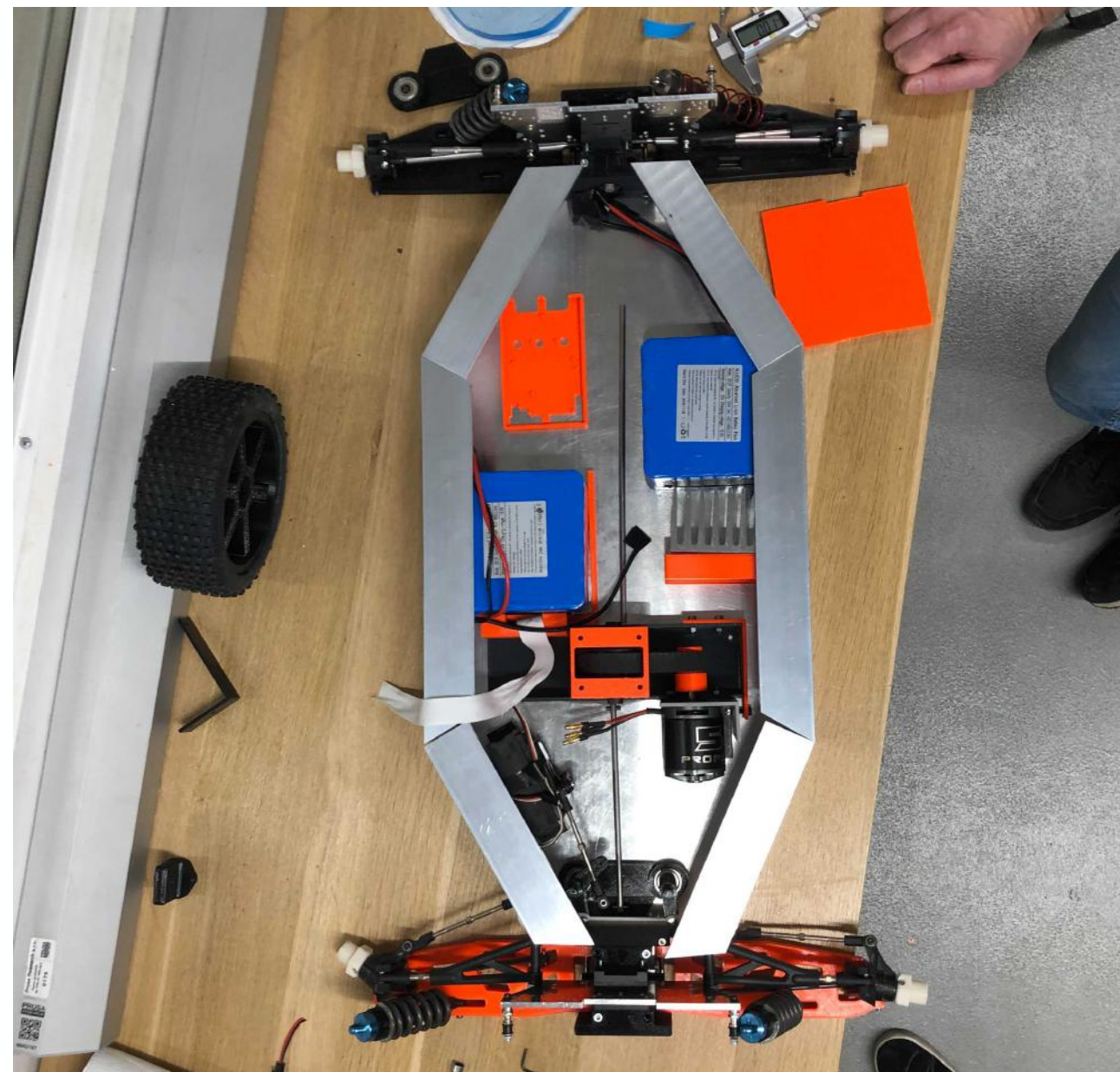
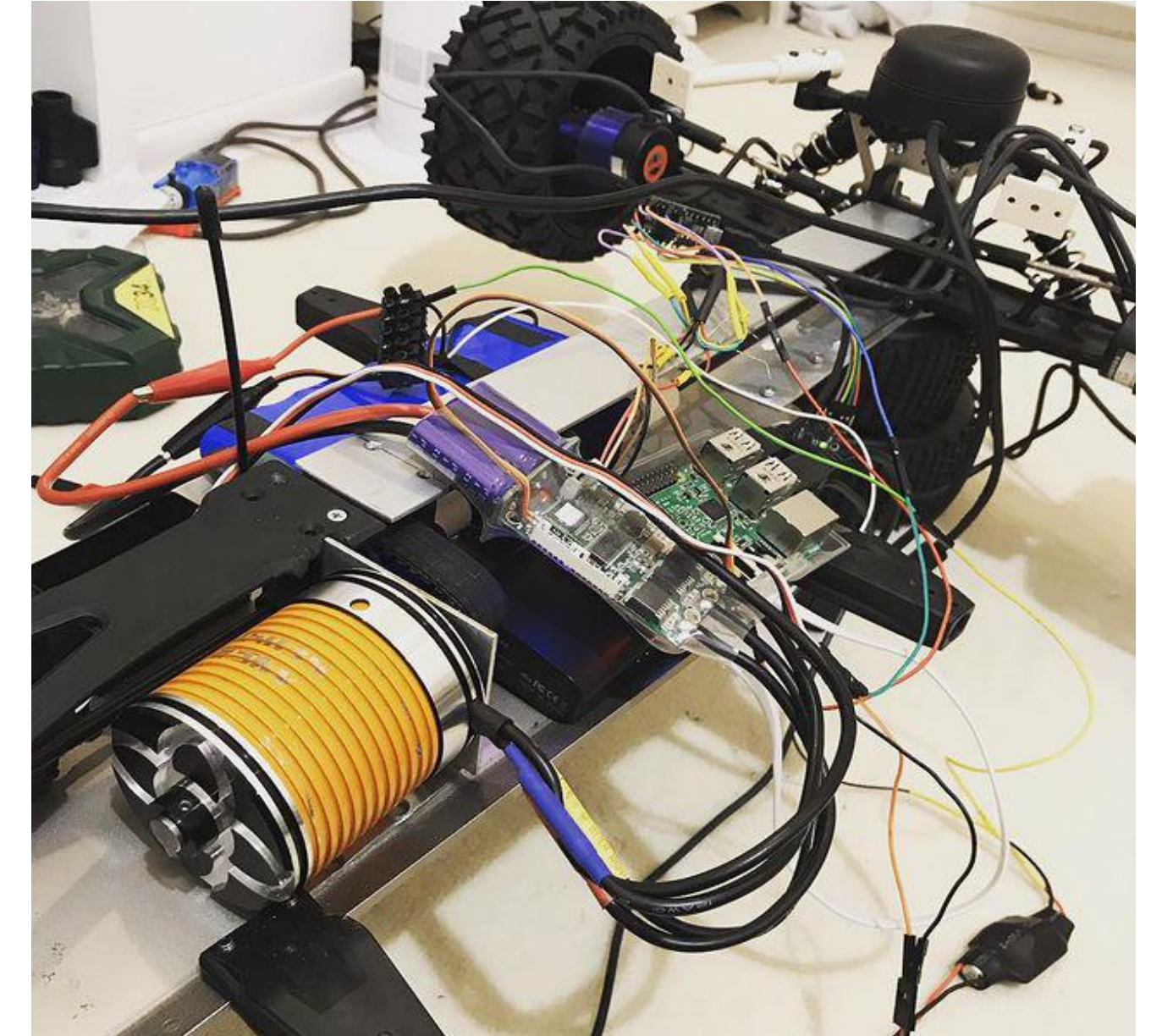
**Robot chassis &
autonomous
remote control**

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jan sedlacek jan@vanilla.cz



HARDWARE

single 2KW brushless motor
VESC motor controller
4 wheel drive
nvidia jetson nano aarch64
intel t265 & d455
rpi lidar / velodyne / luminar
LTE/5G network
60Ah lithium ion 12/24V
rtk gps



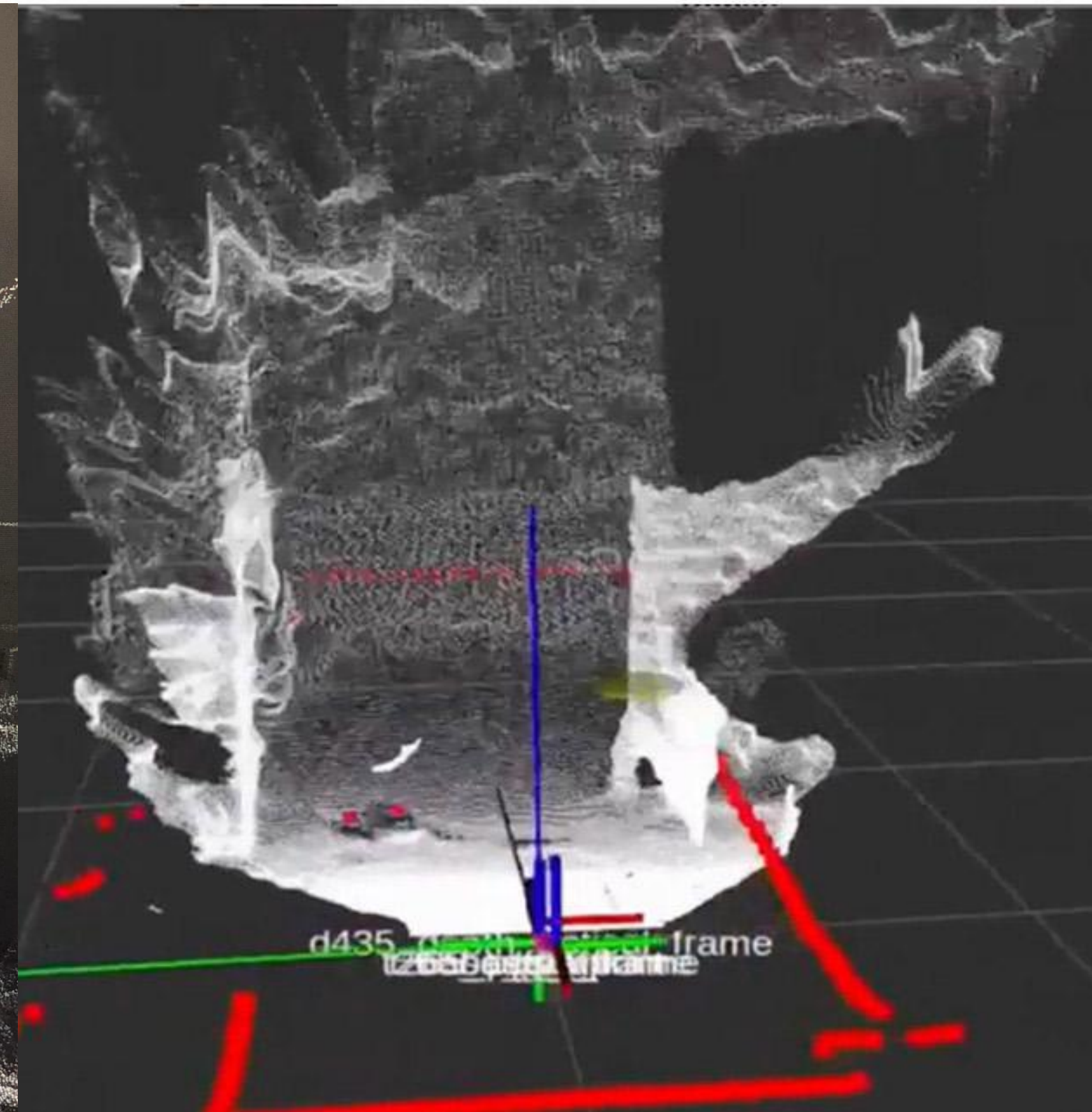


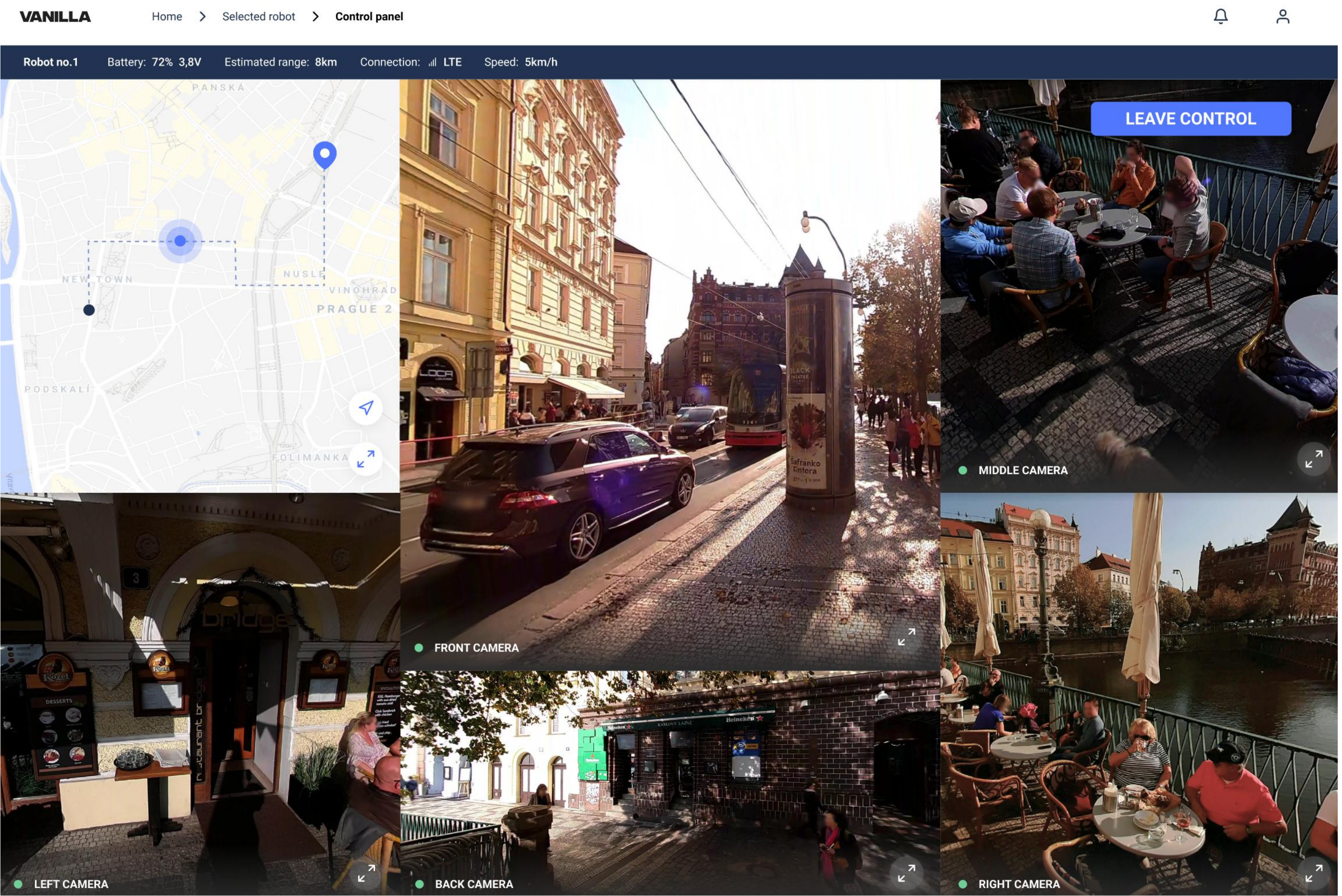
Concept
ROBOT PROTOTYPE

POINTCLOUD

Navigation & localization

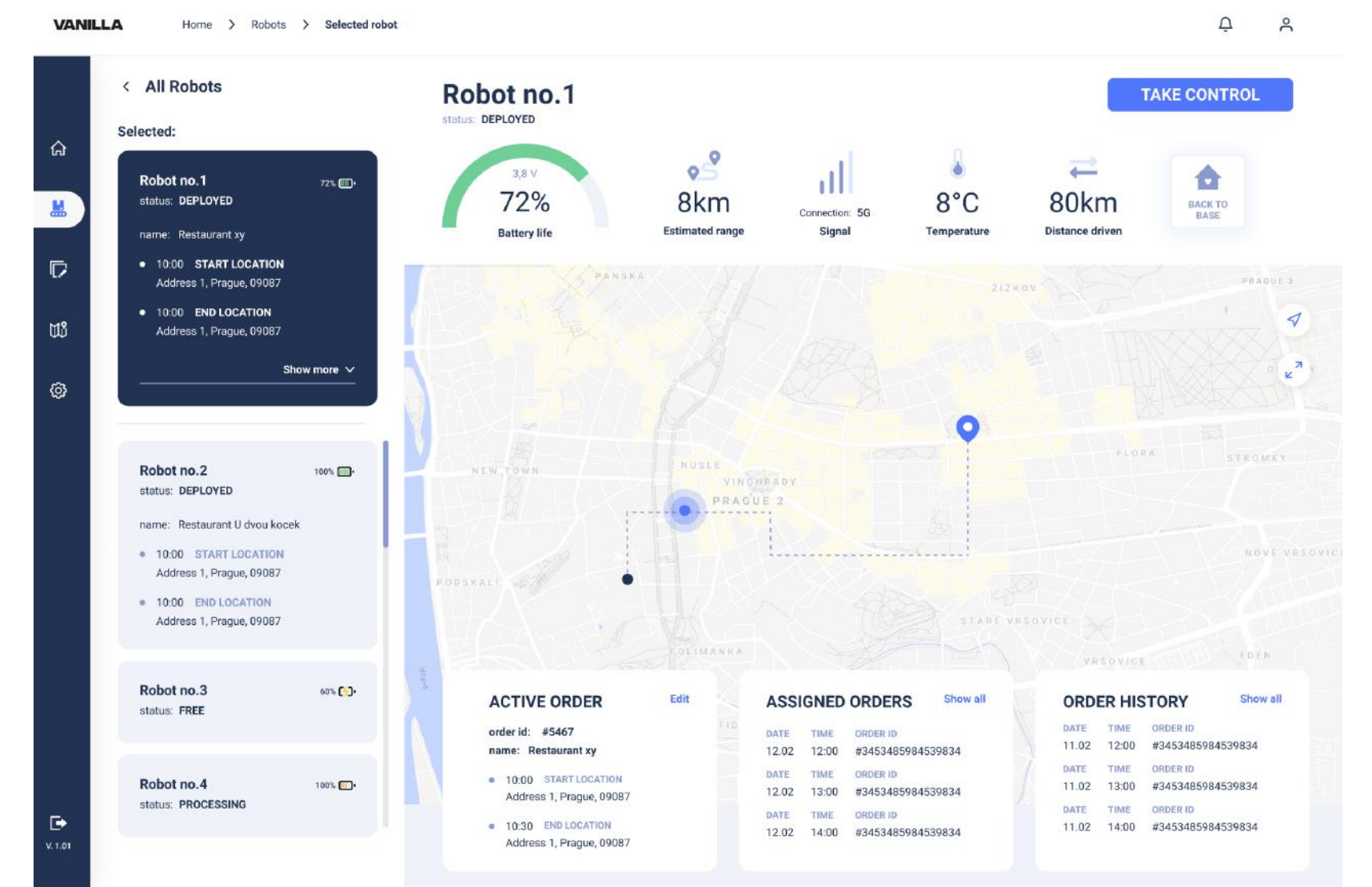
The robots are capable to navigate around neighbourhoods carrying up to 20kg payloads or equipment within blocks of cities and safely avoid and detect obstacles in their paths created from occupancy map





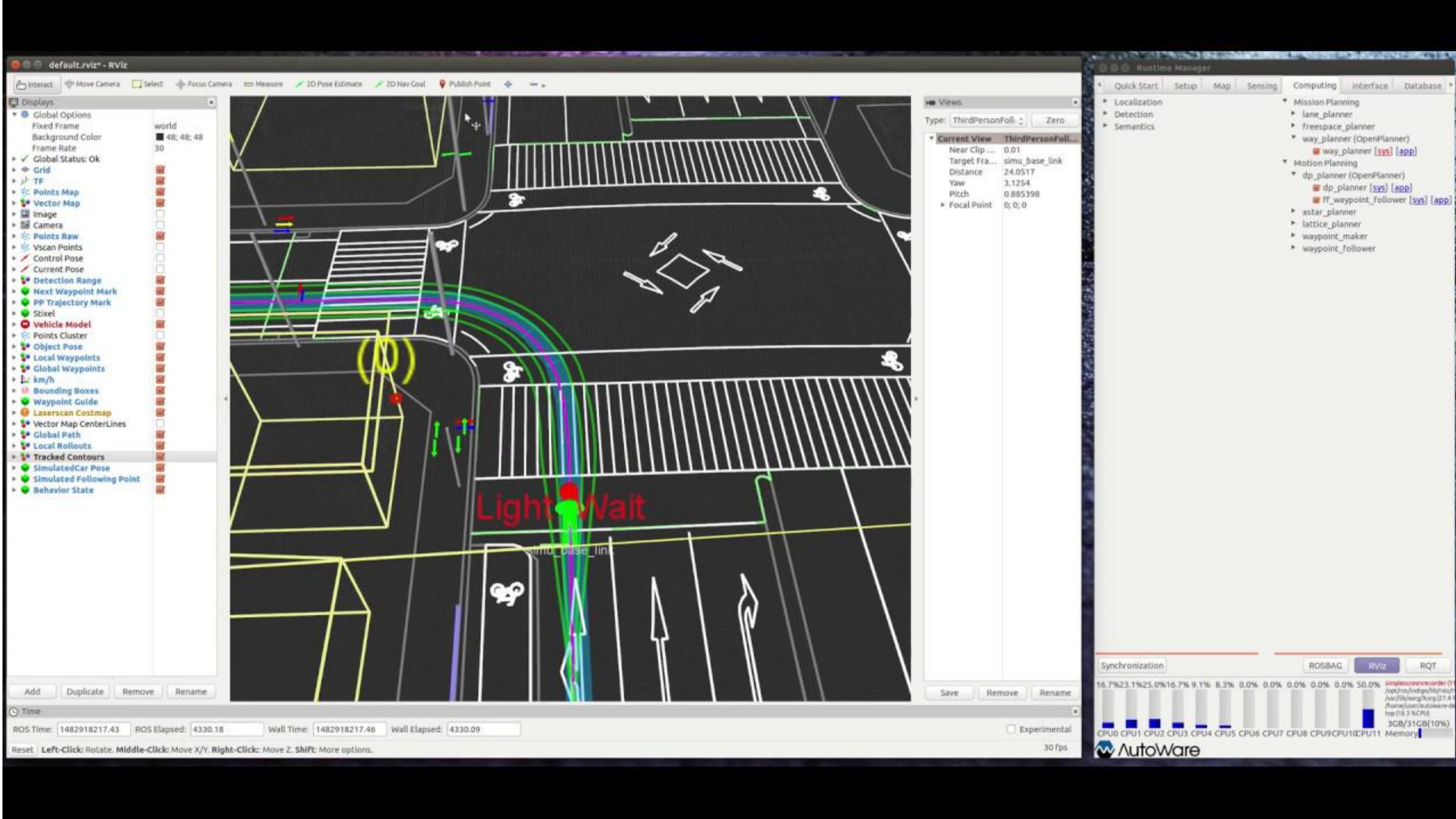
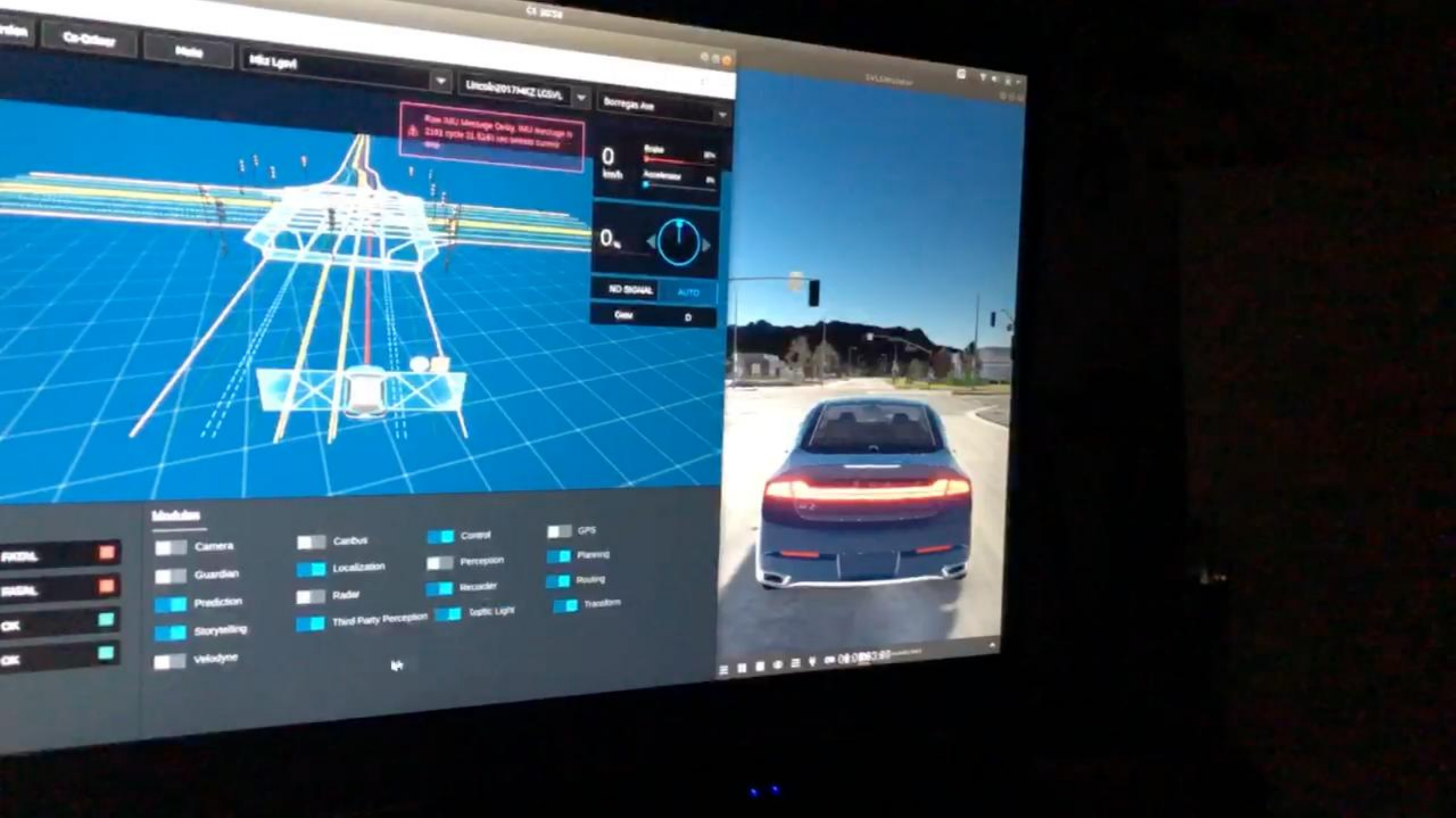
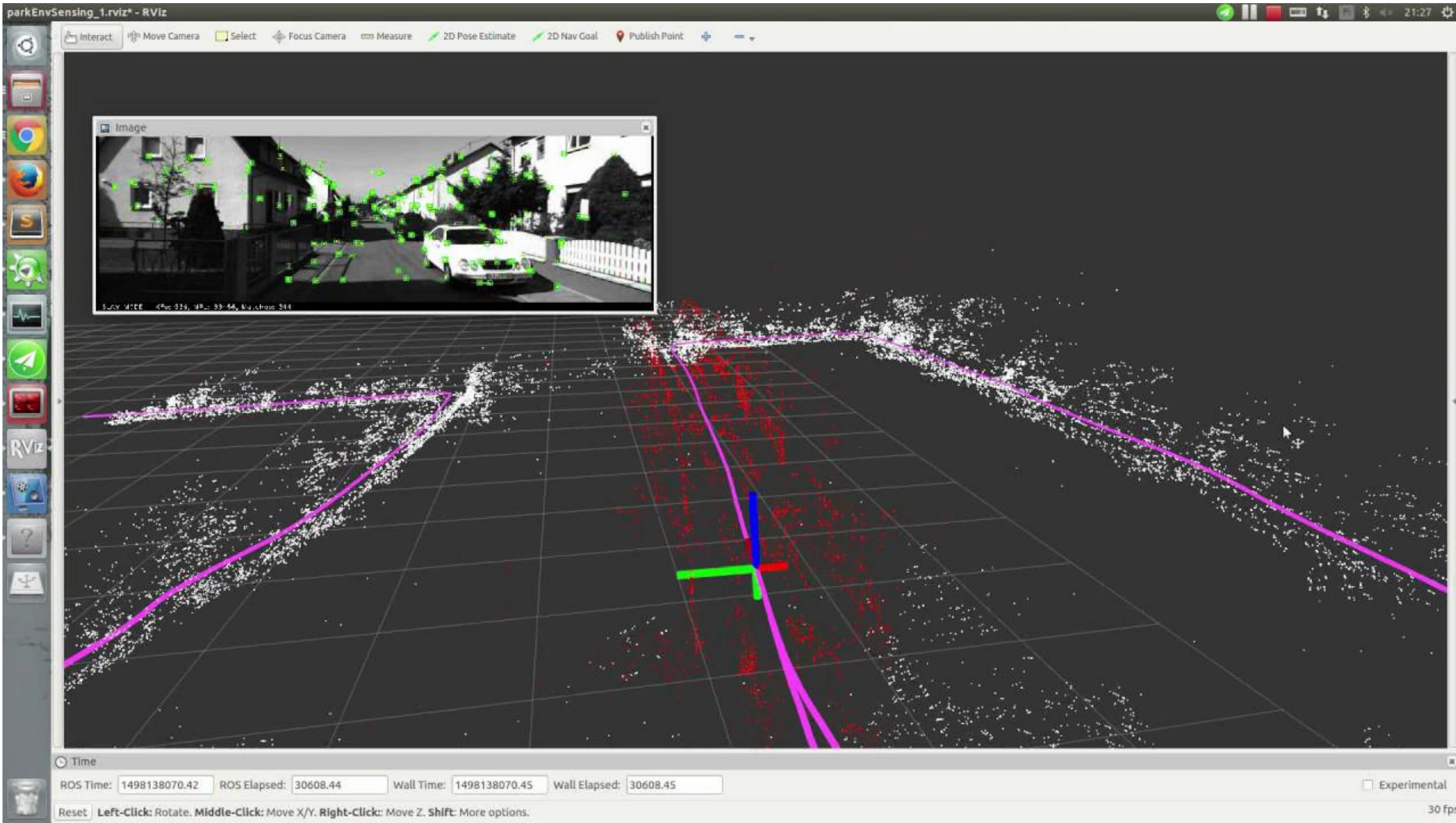
Remote control

ROS - robotic operating system
 Global and Local Path Planning
 ORB SLAM / Autoware
 iOS mac / ipad apps for remote control



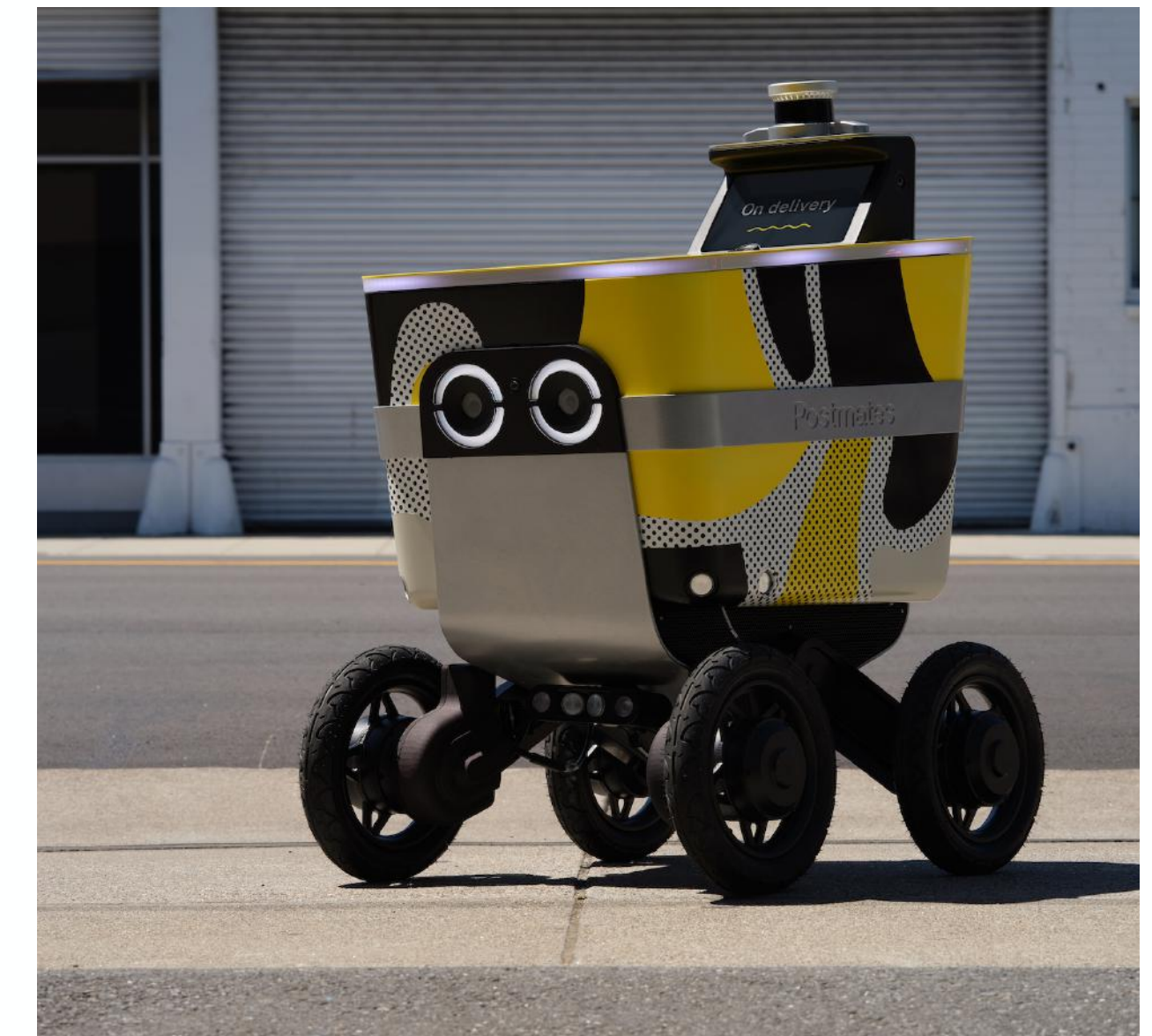
autoware & orb slam

MOBILE / WEB APPS / API / CANBUS CONNECTION



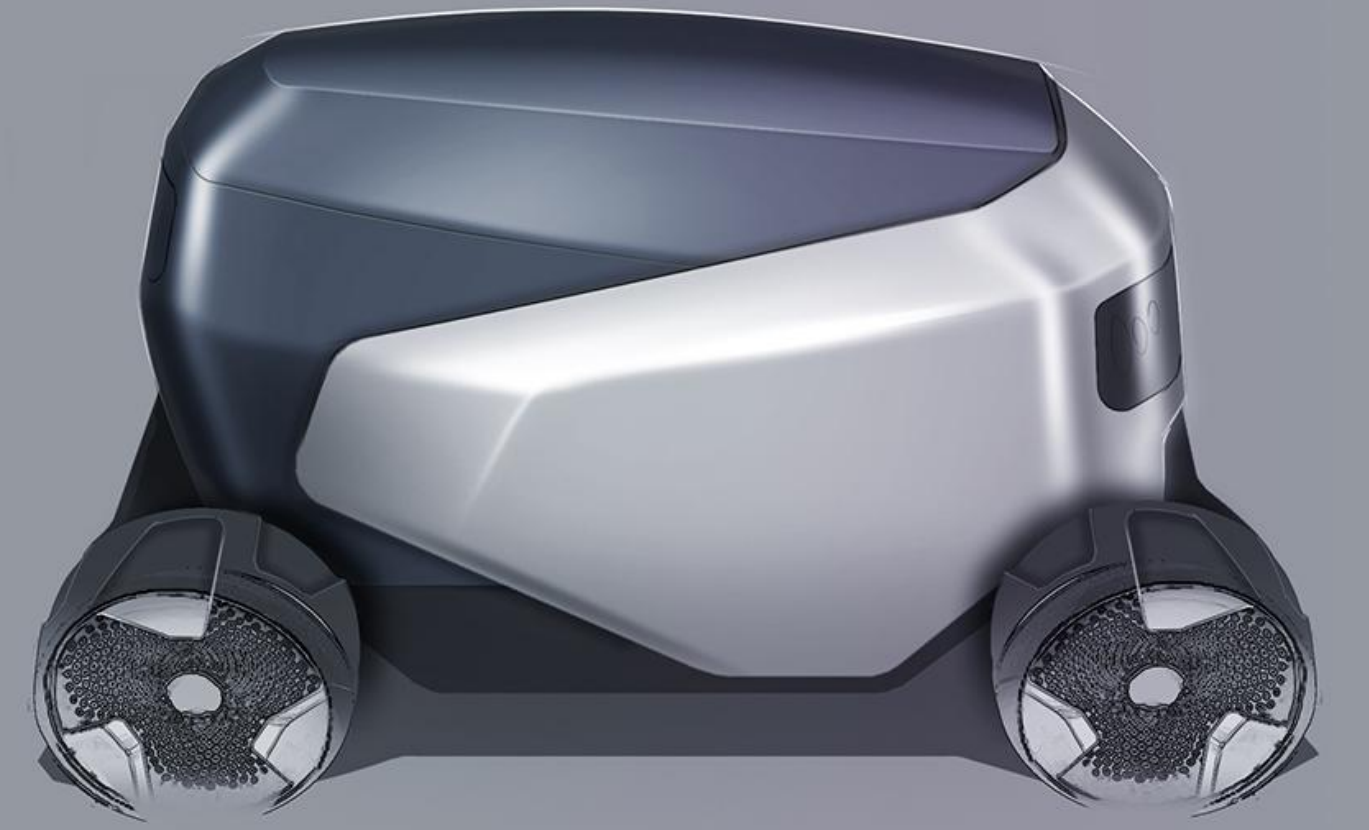
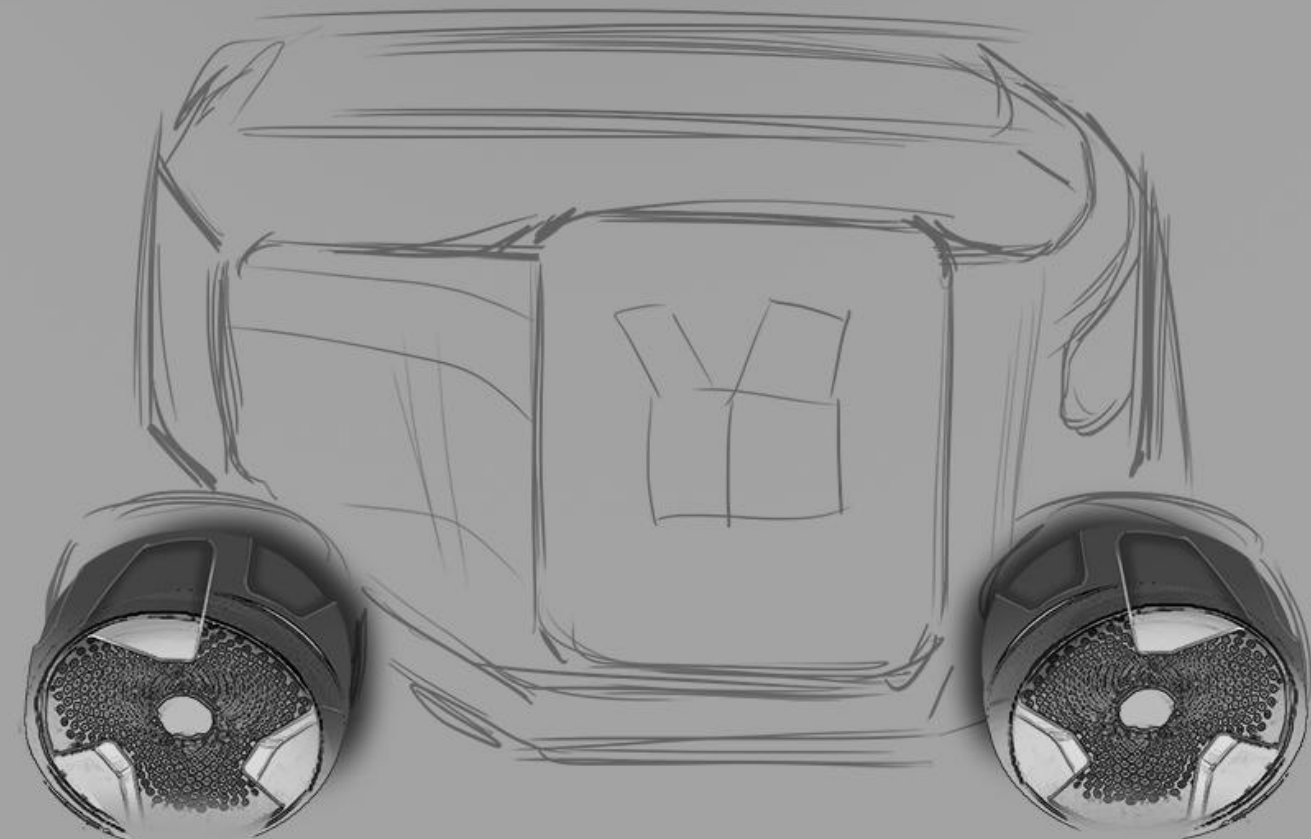
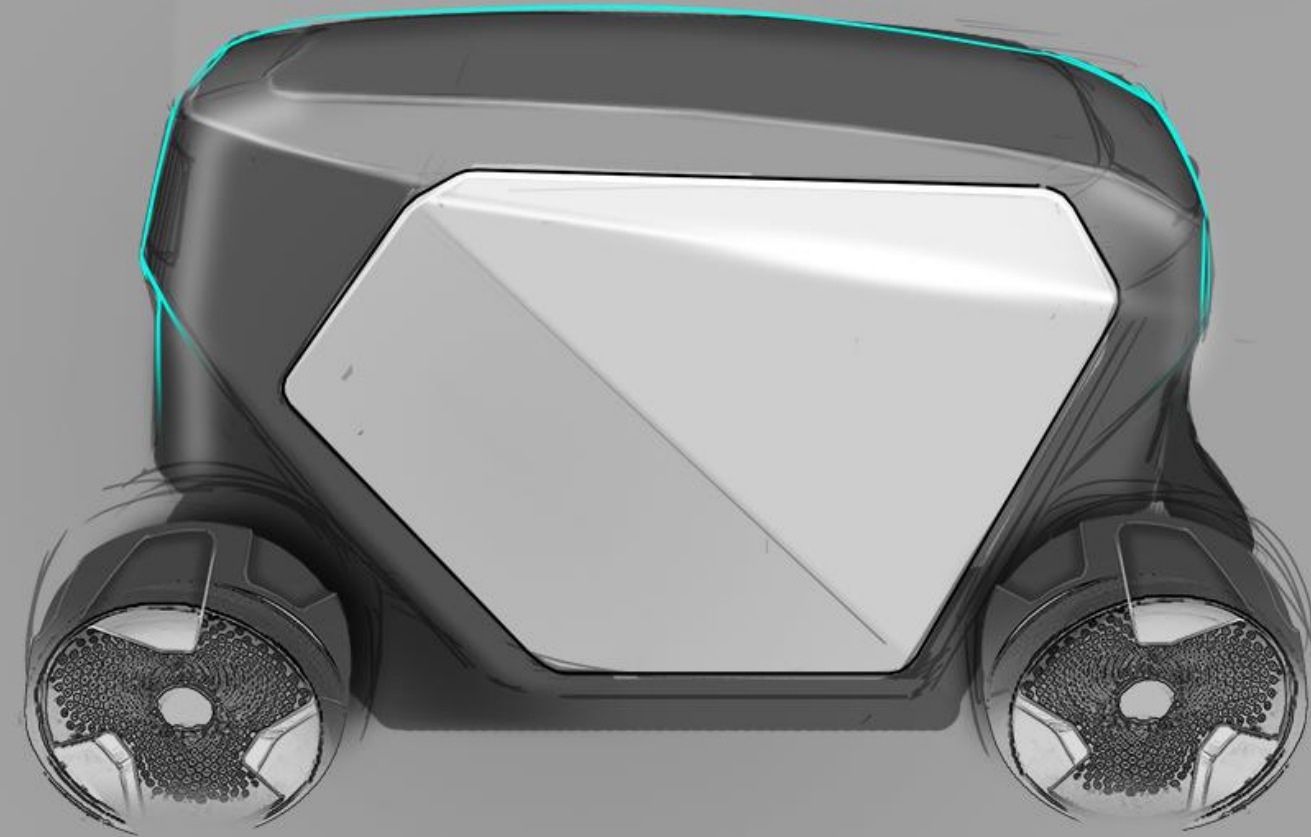
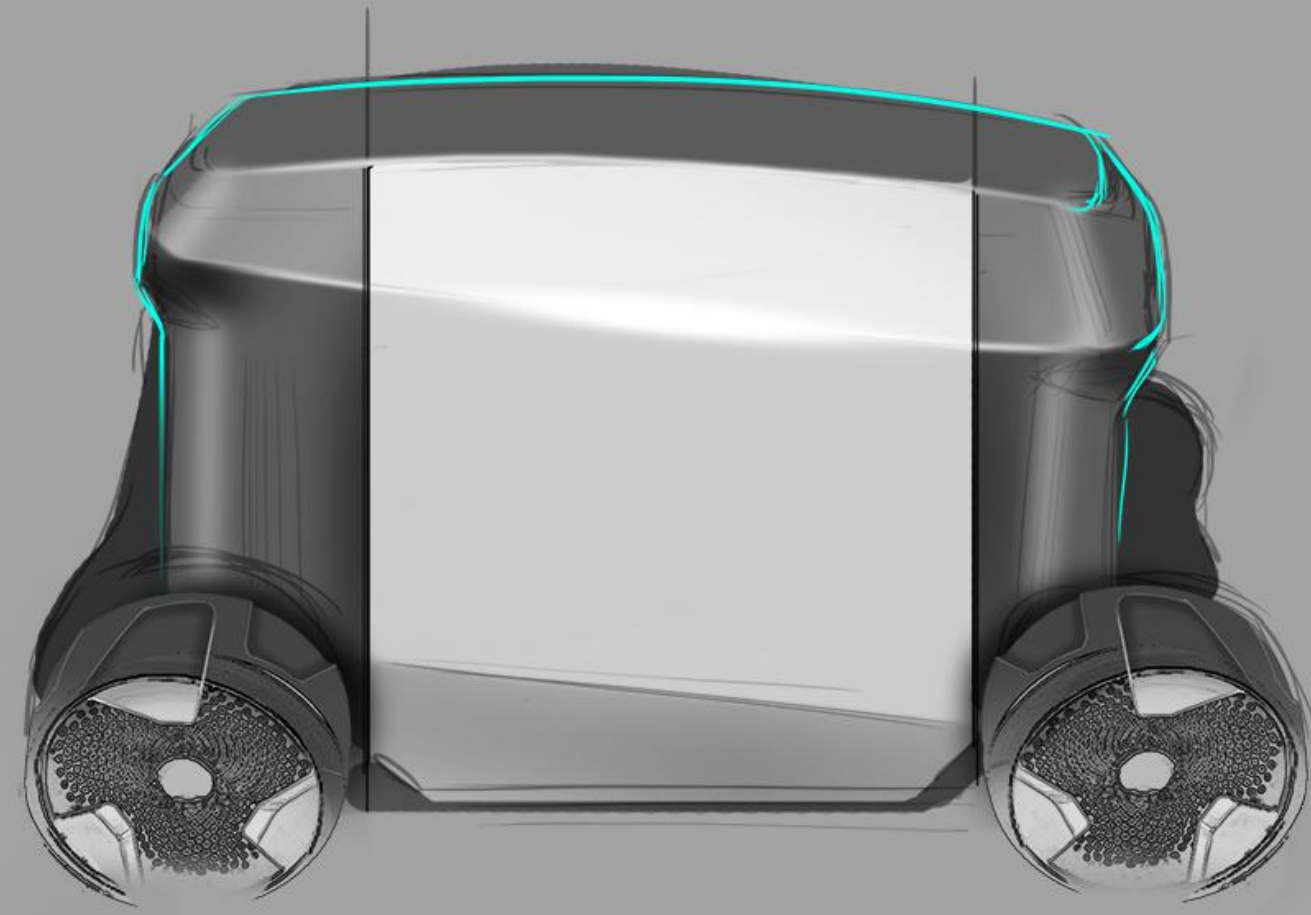
LAST MILE DELIVERY COMPETITION

starship technologies
amazon deliveries
postmates

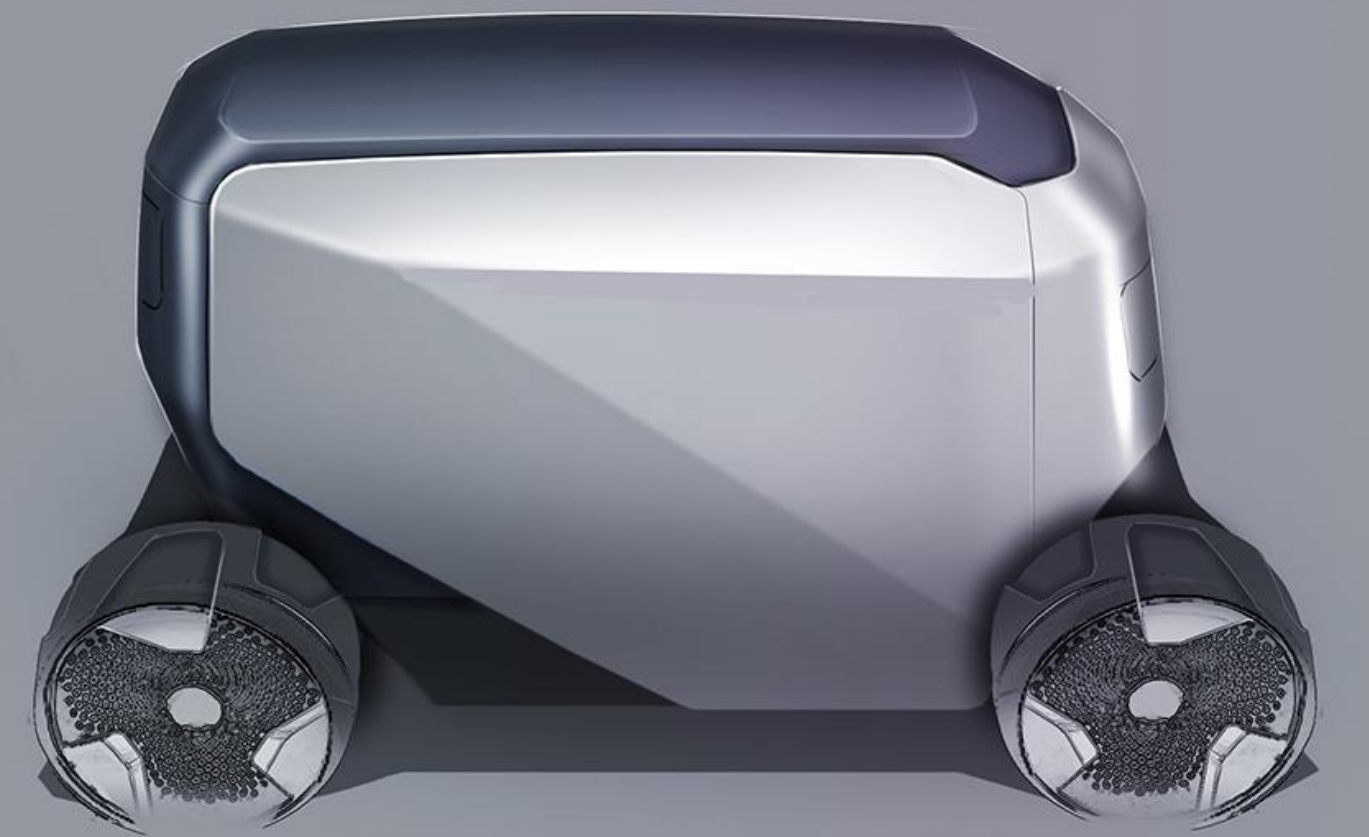


3D DESIGNS

vision



01



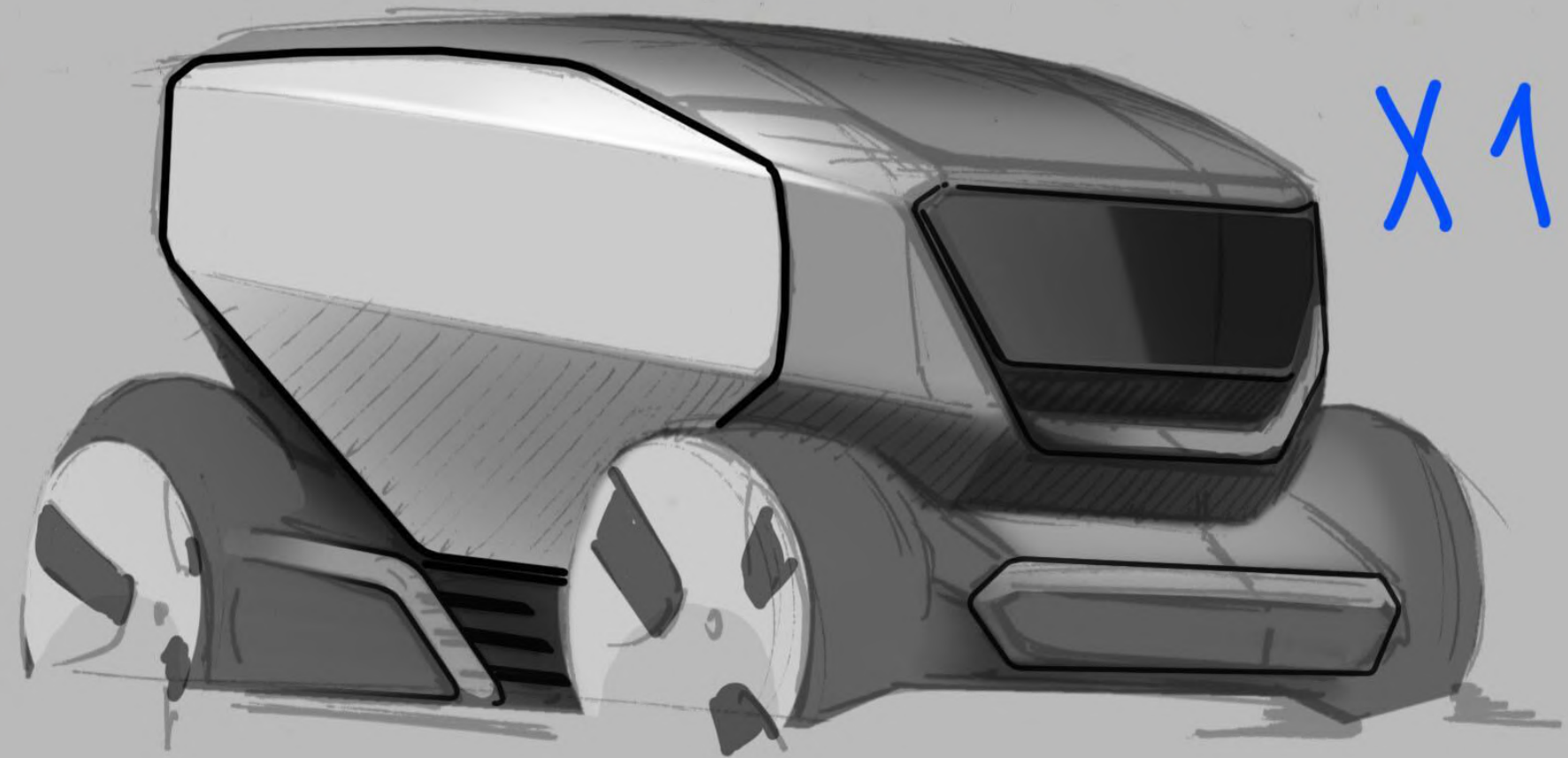
02



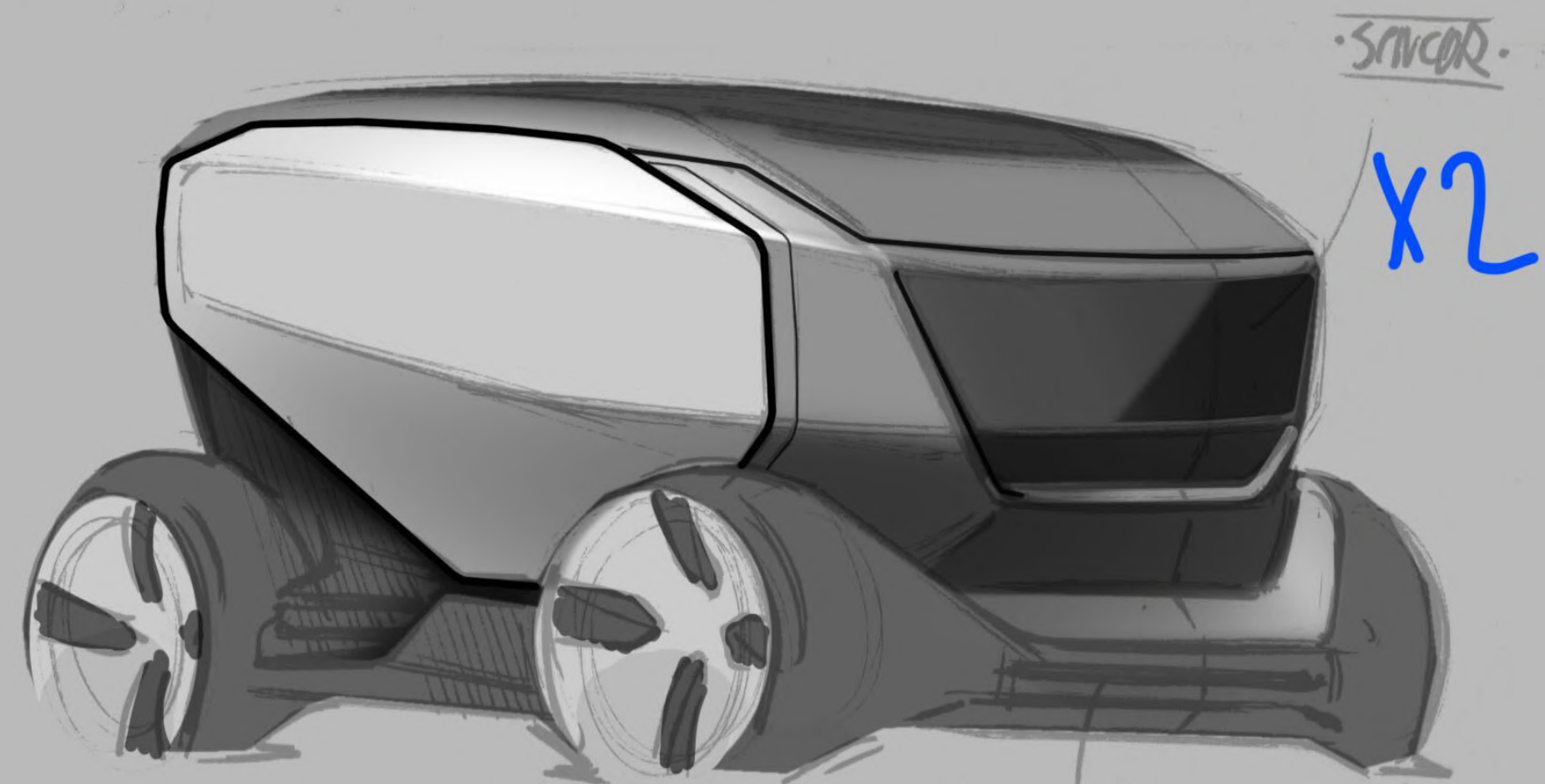
03

3D DESIGNS

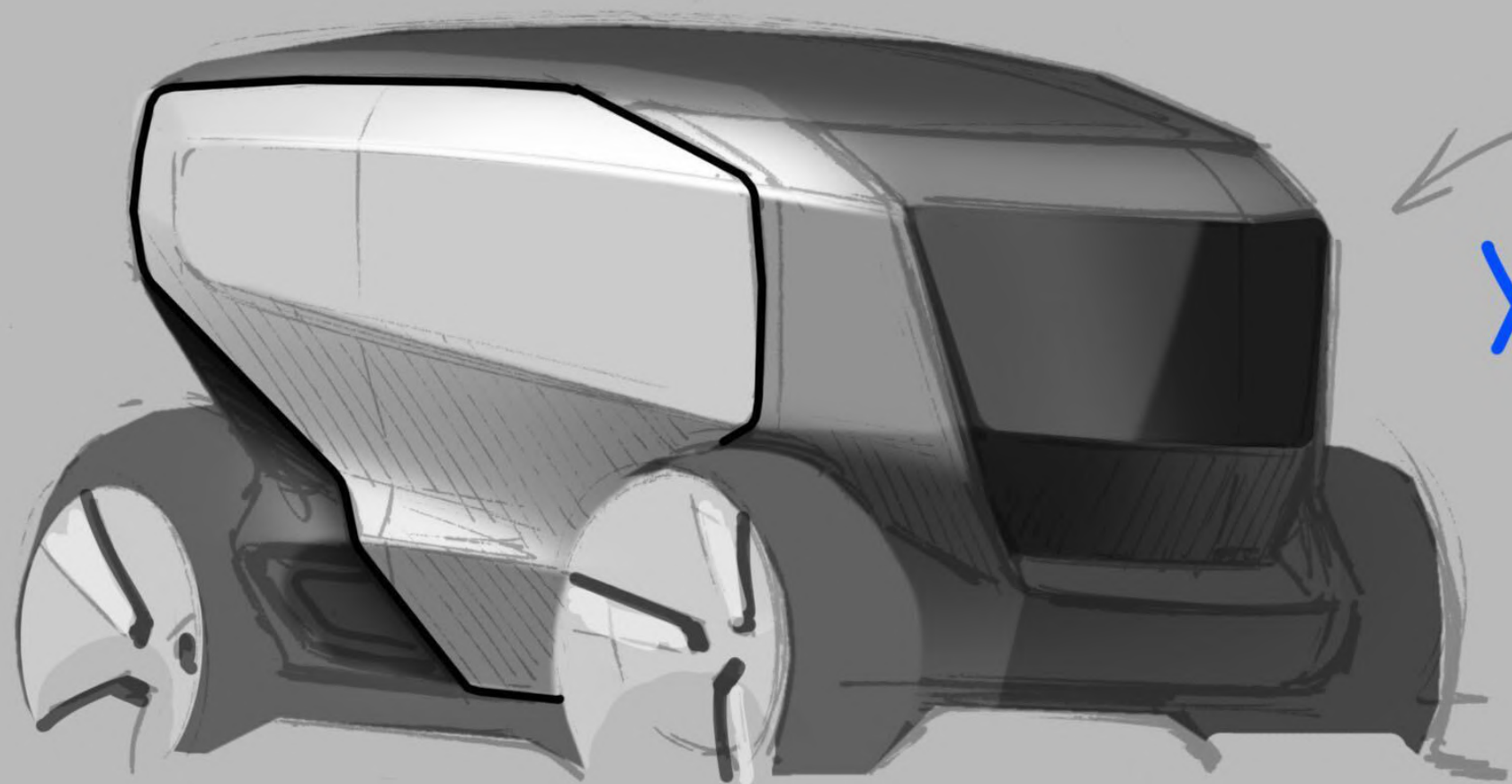
vision



X1

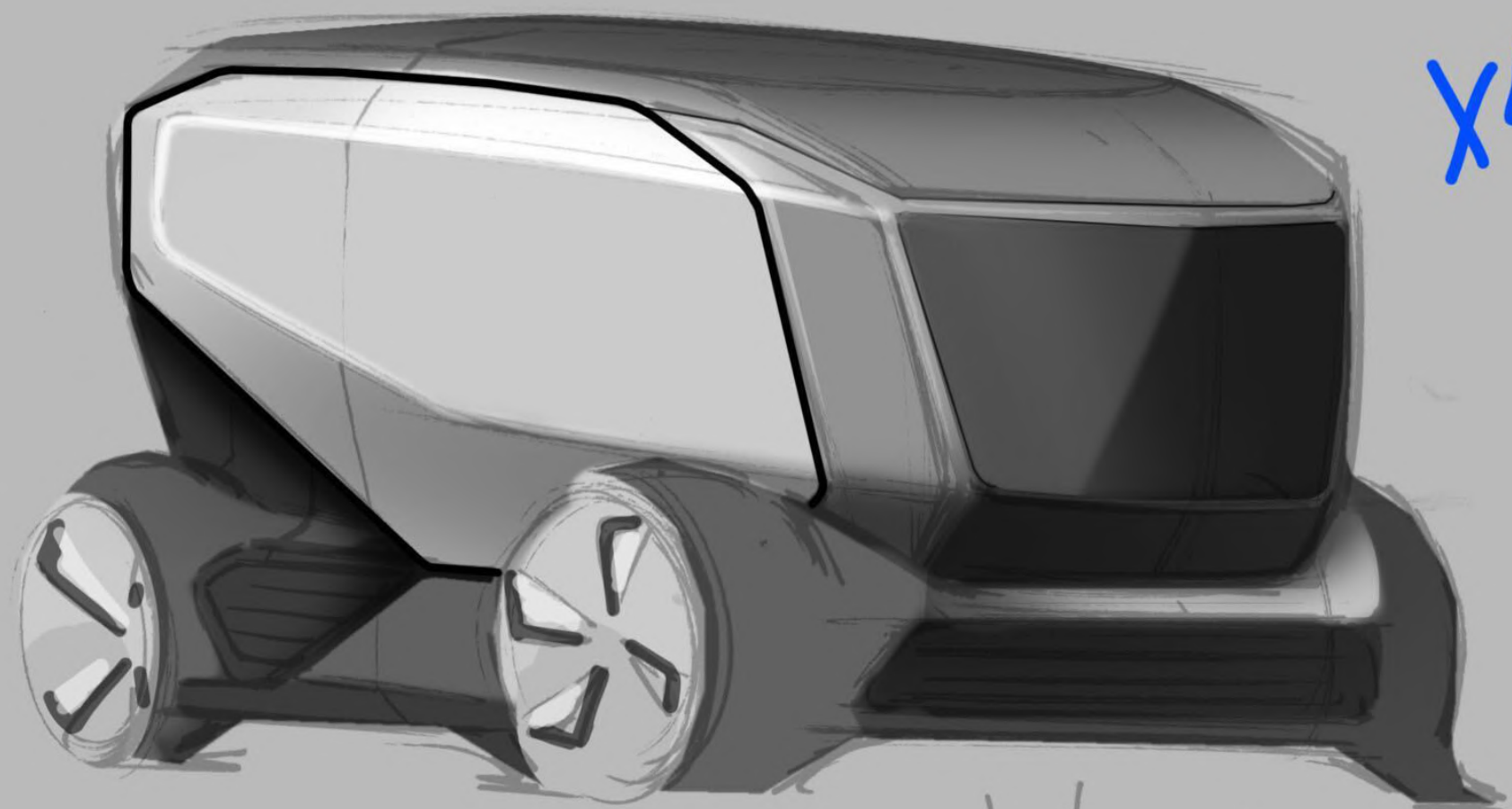


X2



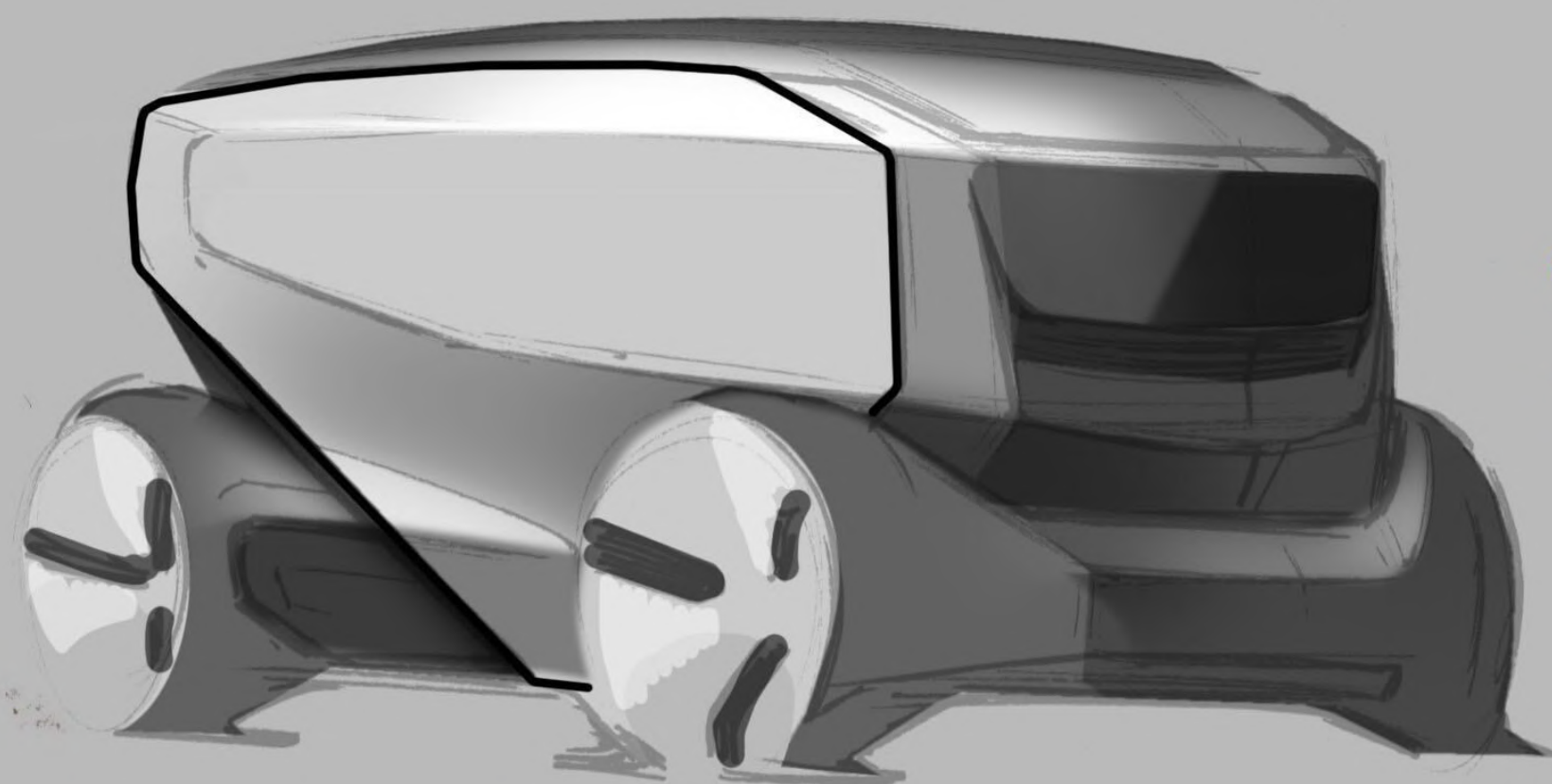
X3

SENSOR



X4

BUMPER



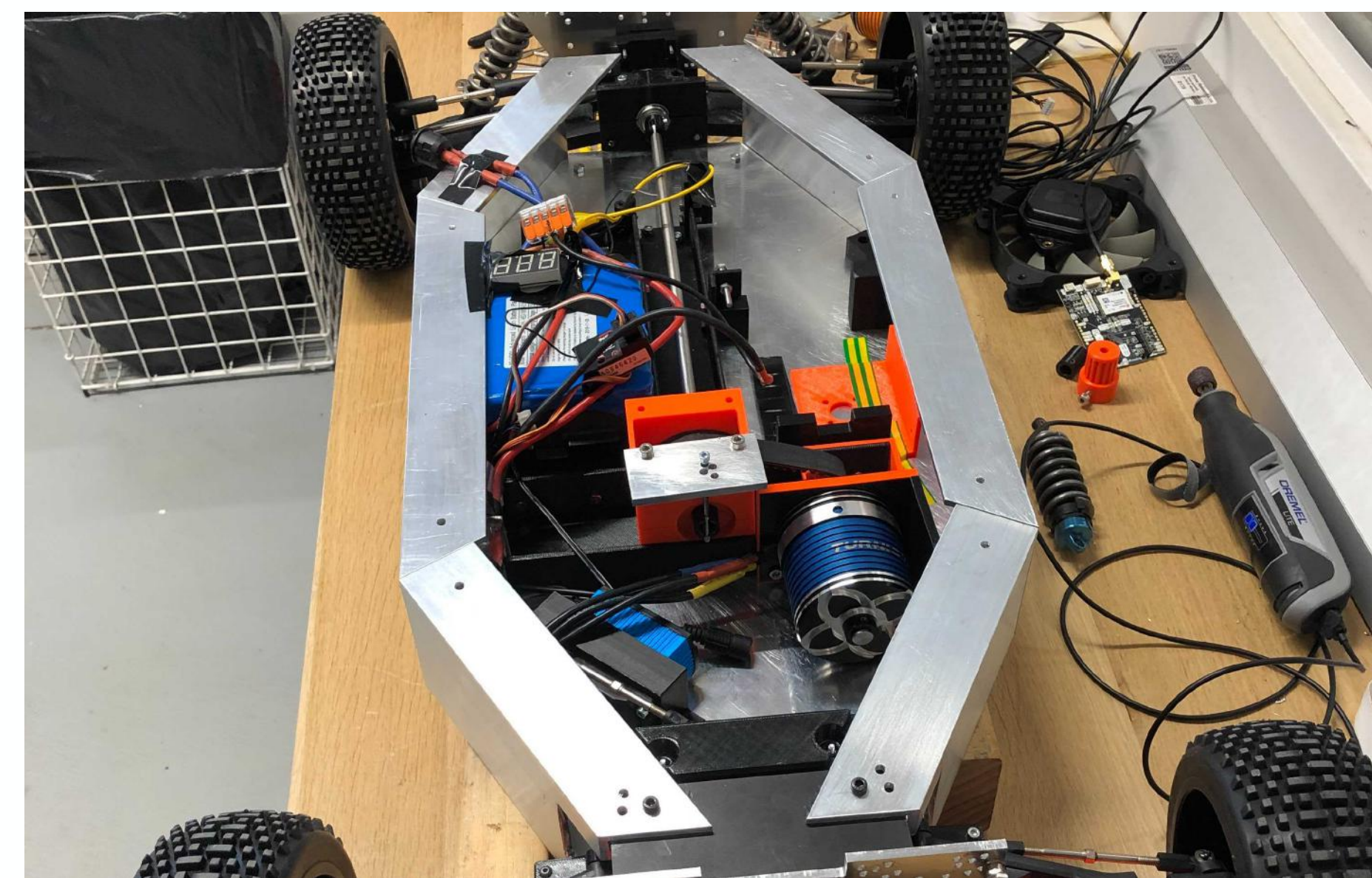
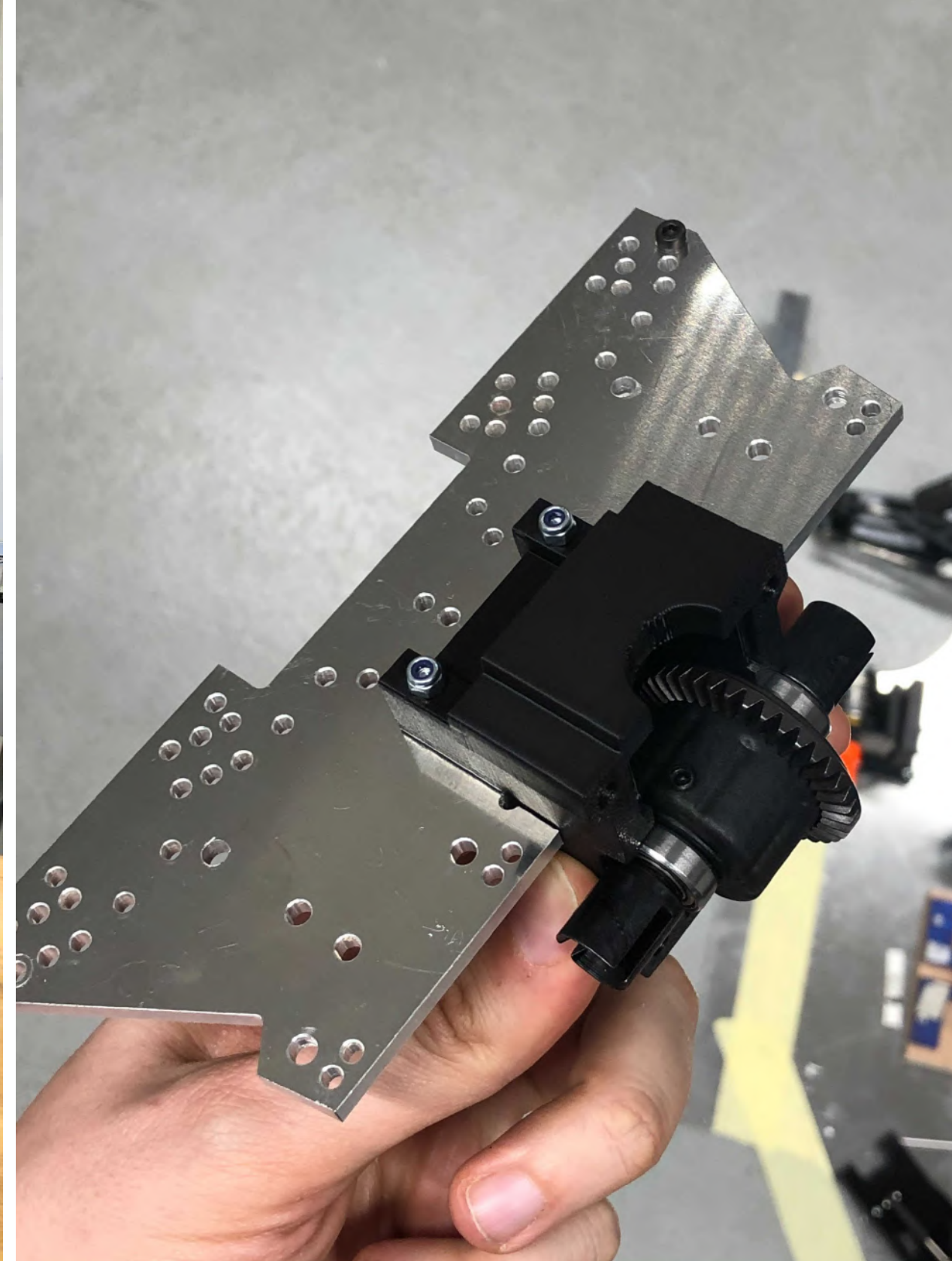
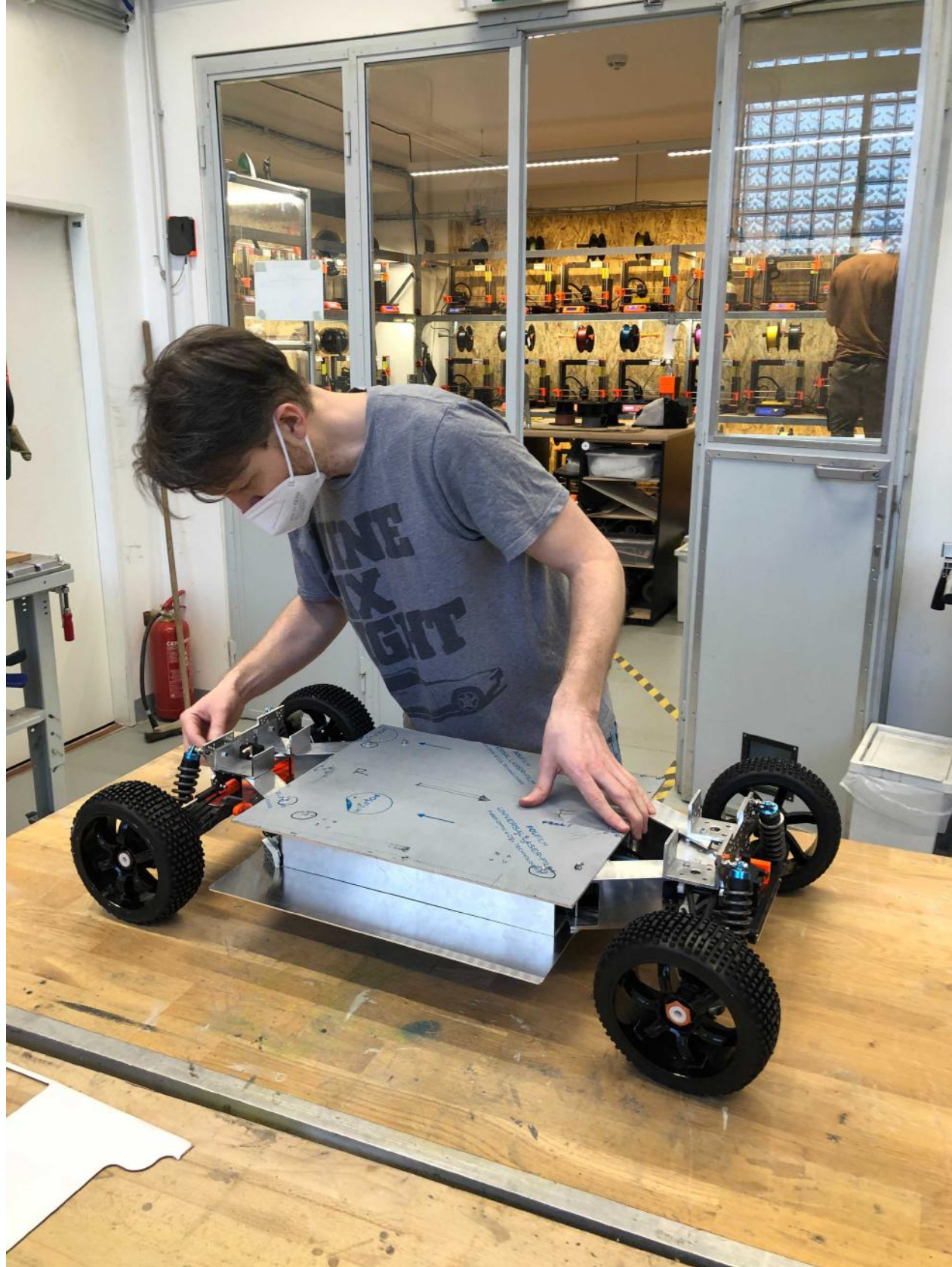
X5



VAN M

PROGRESS

build log





HARDWARE CHASSIS

applications

CO-OPERATION

DEČÍN

Technical university joint operations



VANILLA

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