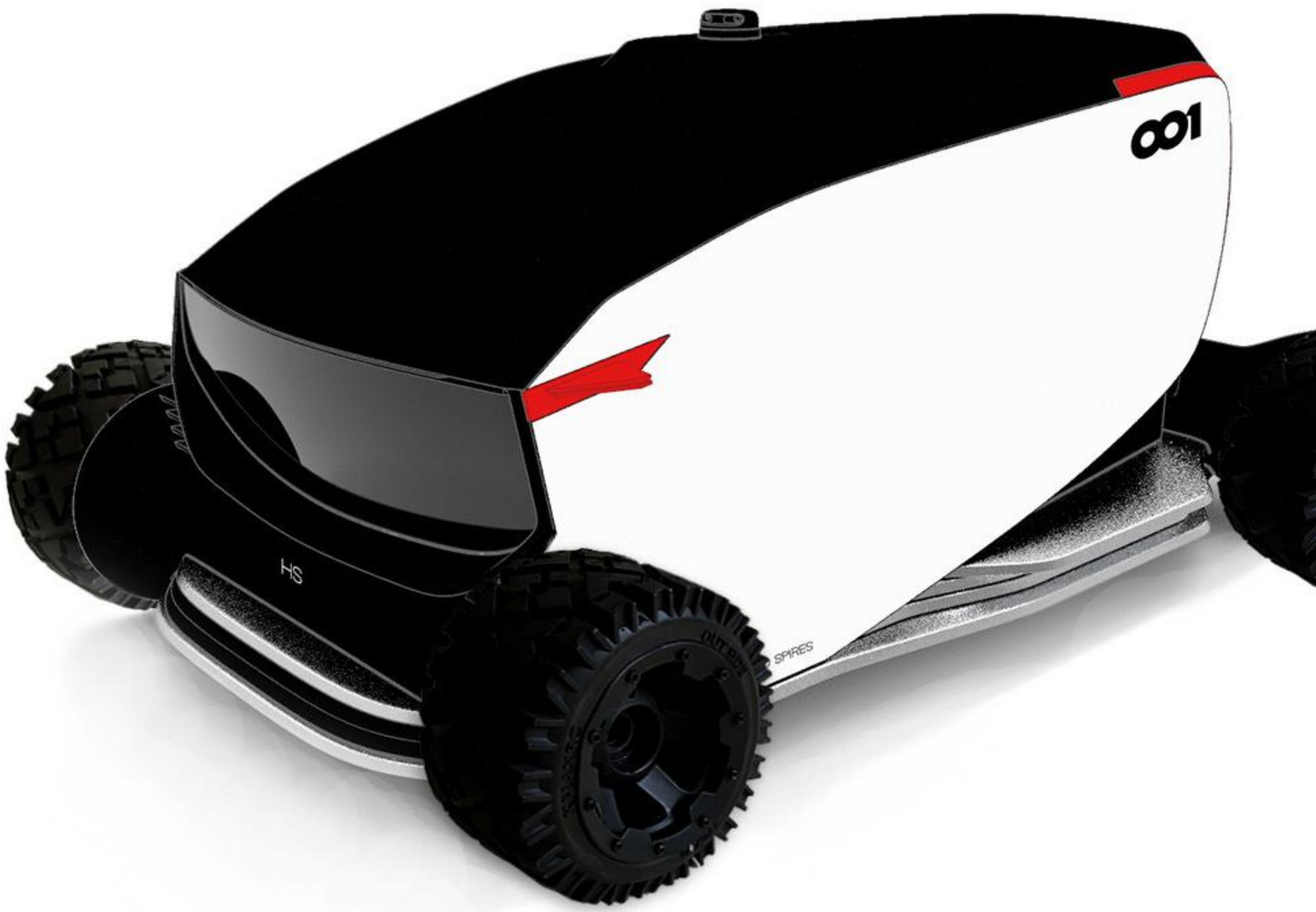


VANILLA

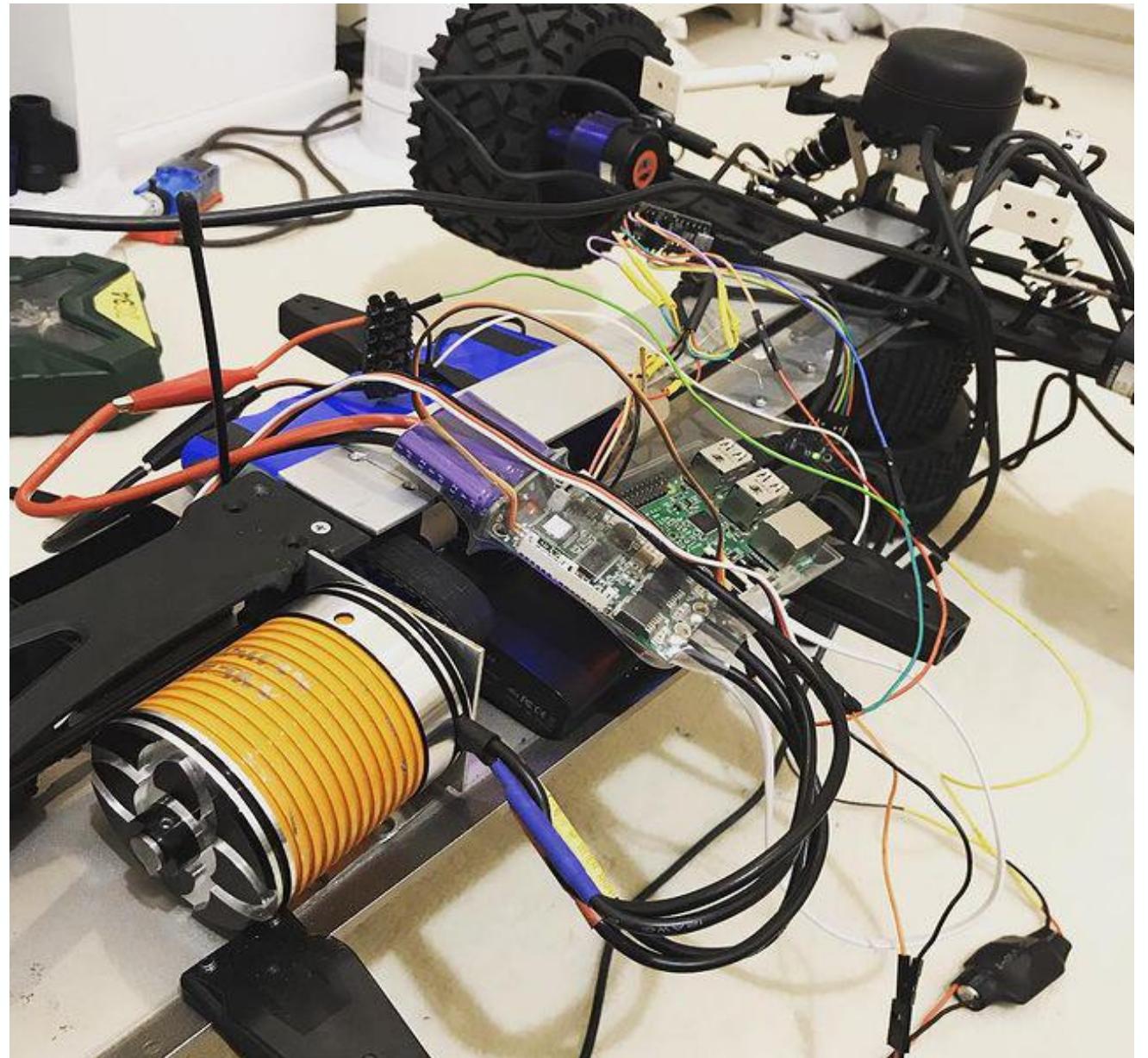
**Robot chassis &
autonomous
remote control**

tomas krivda tomas@vanilla.cz
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**



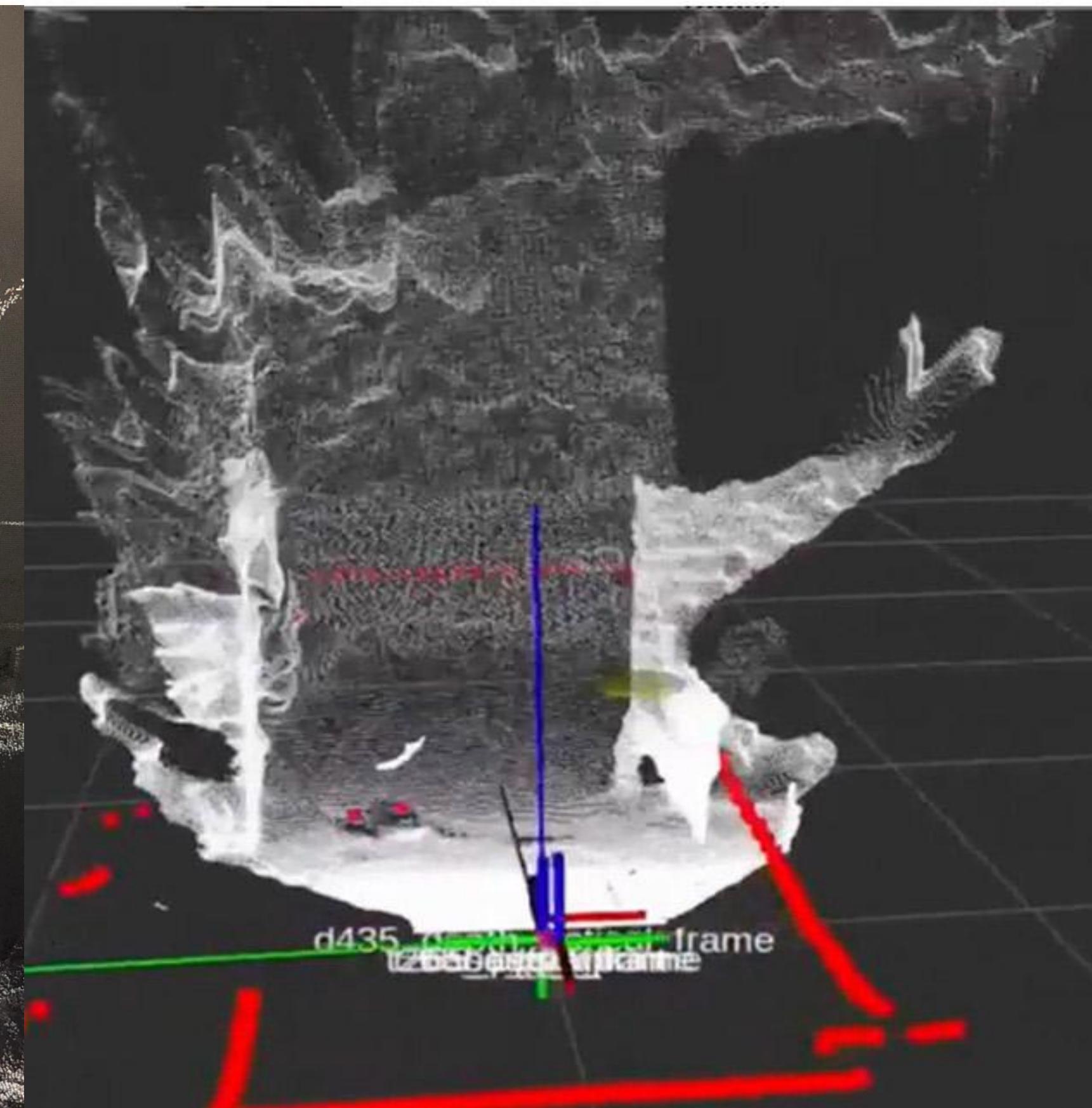
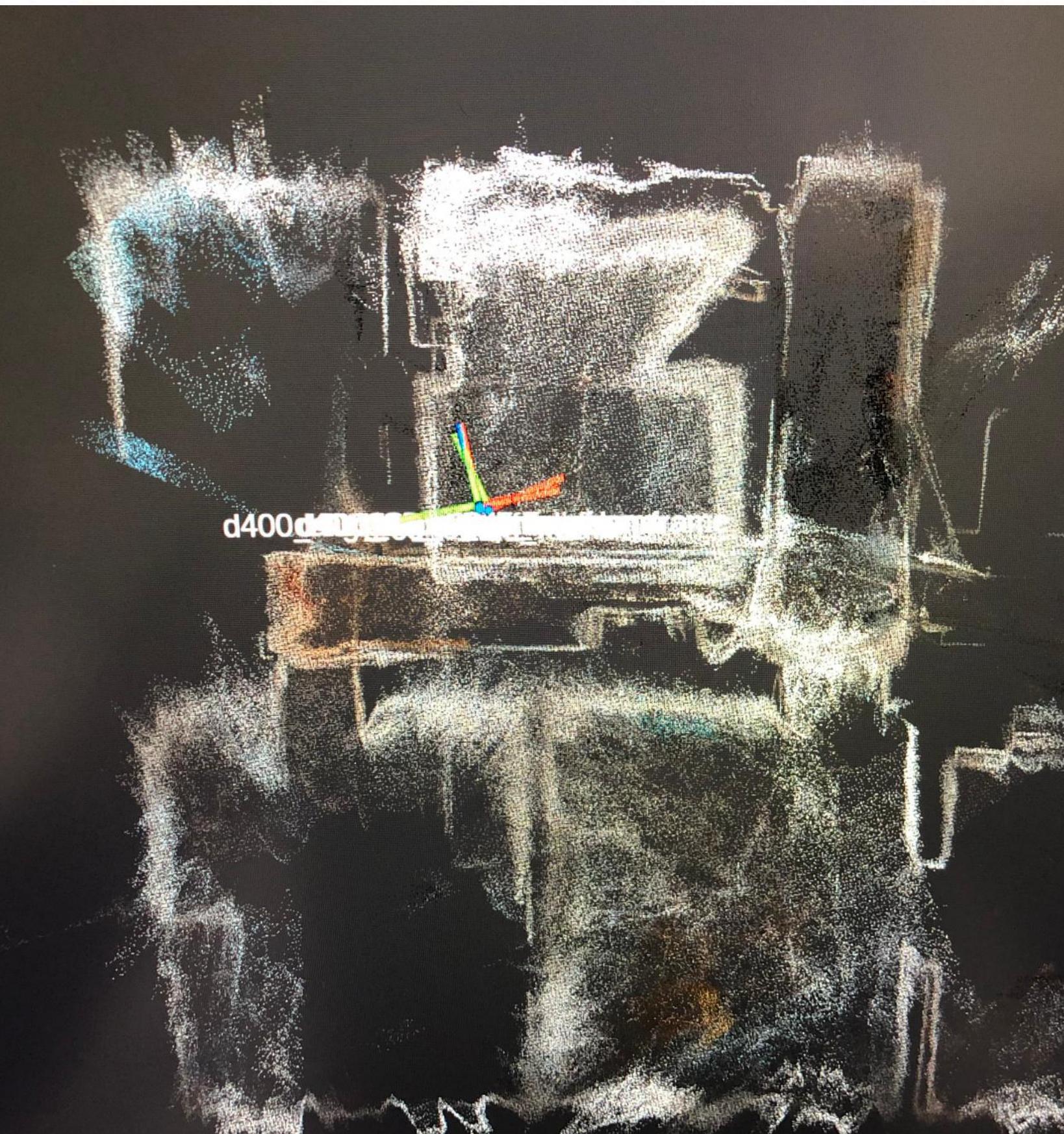


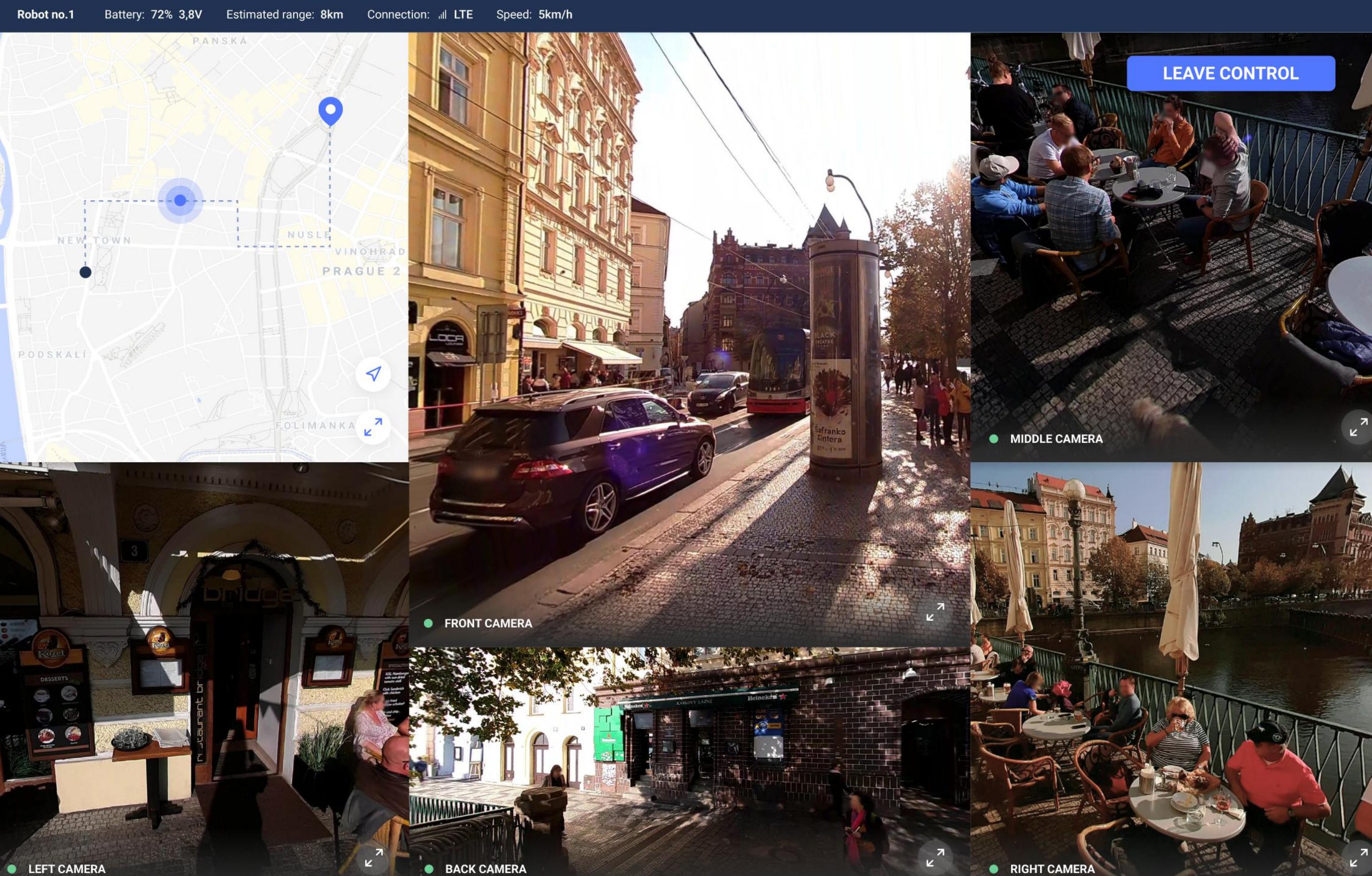
Concept
ROBOT PROTOTYPE

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

VANILLA Home > Robots > Selected robot

ALL ROBOTS SELECTED:

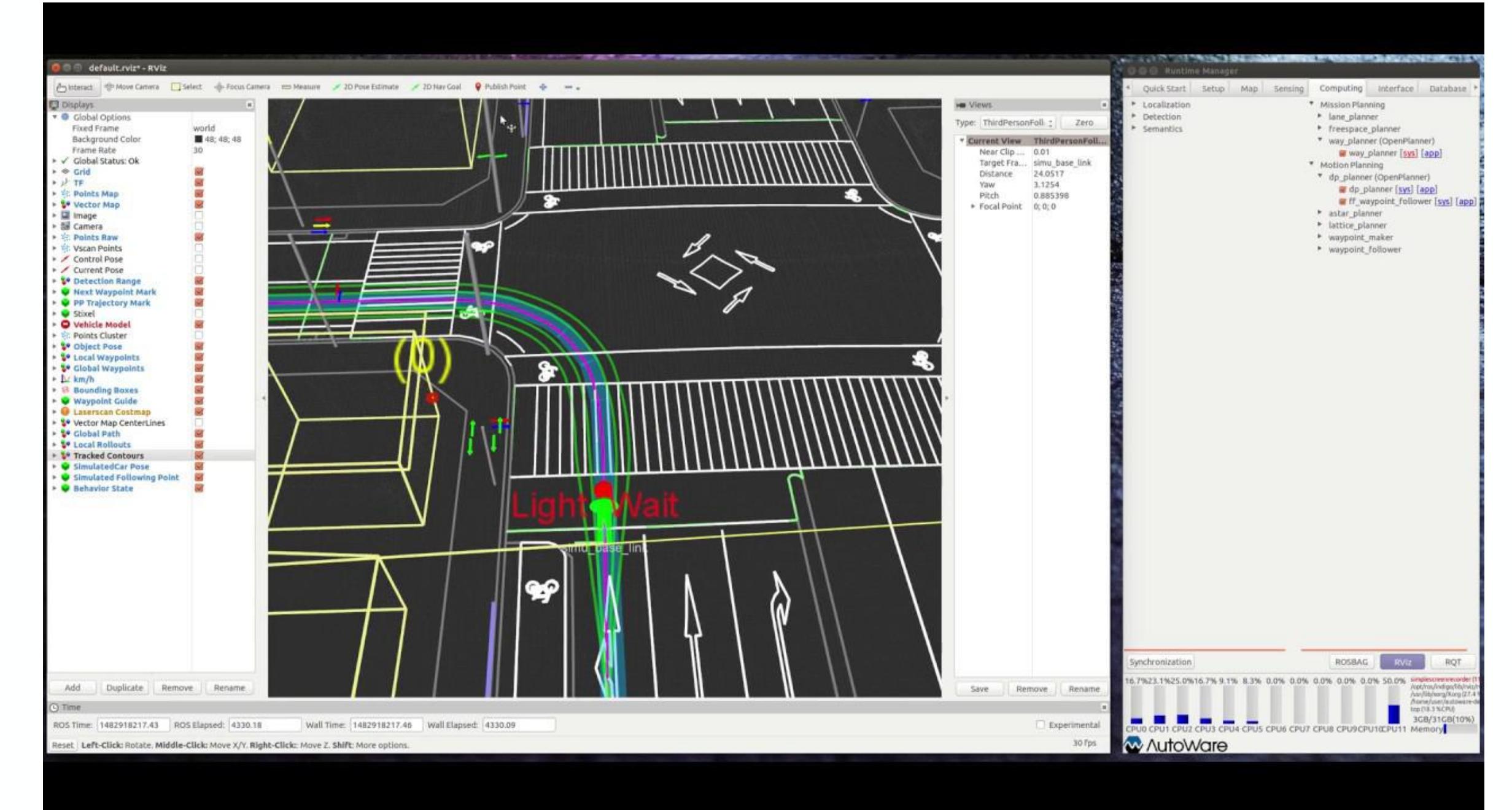
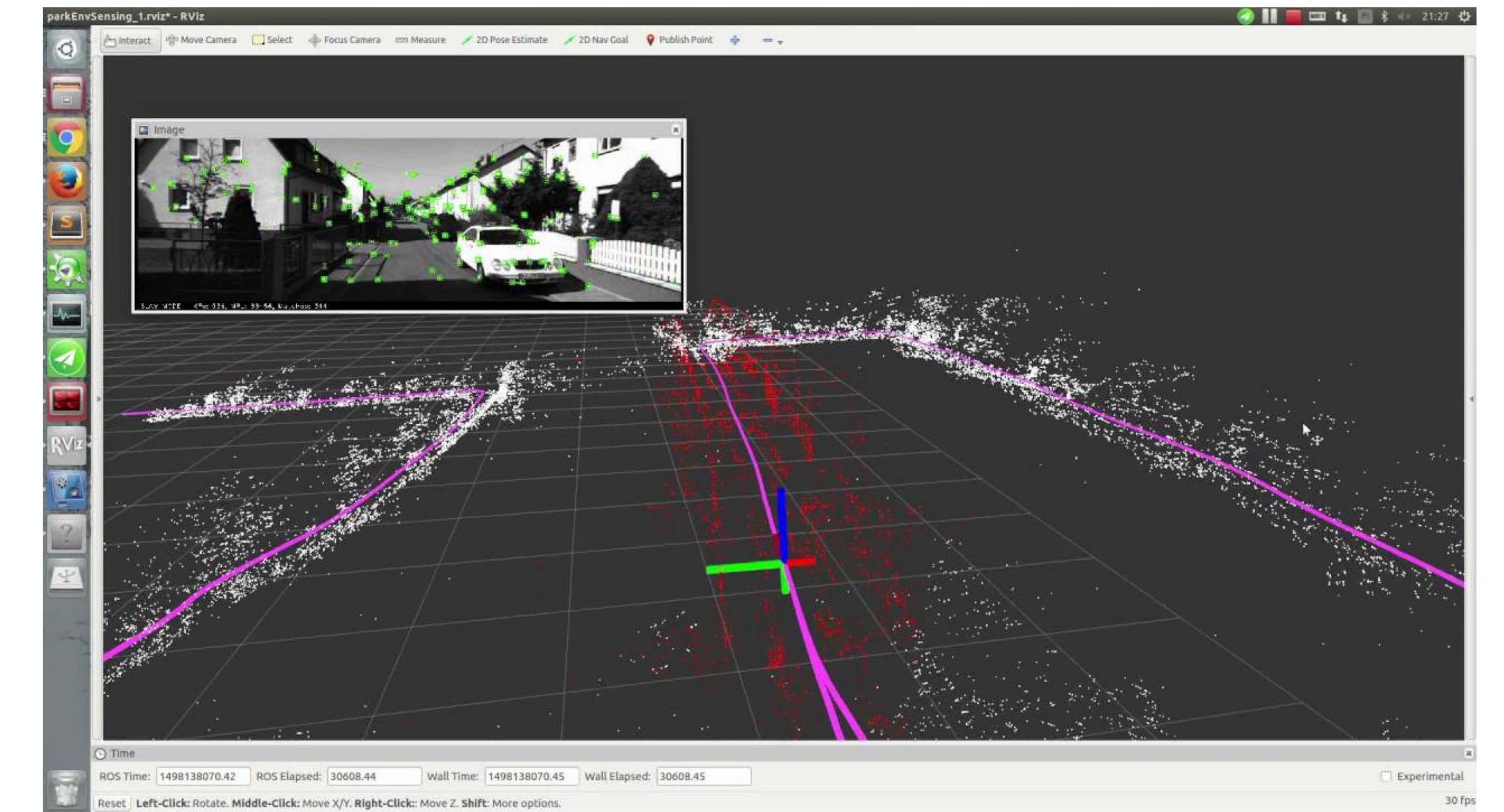
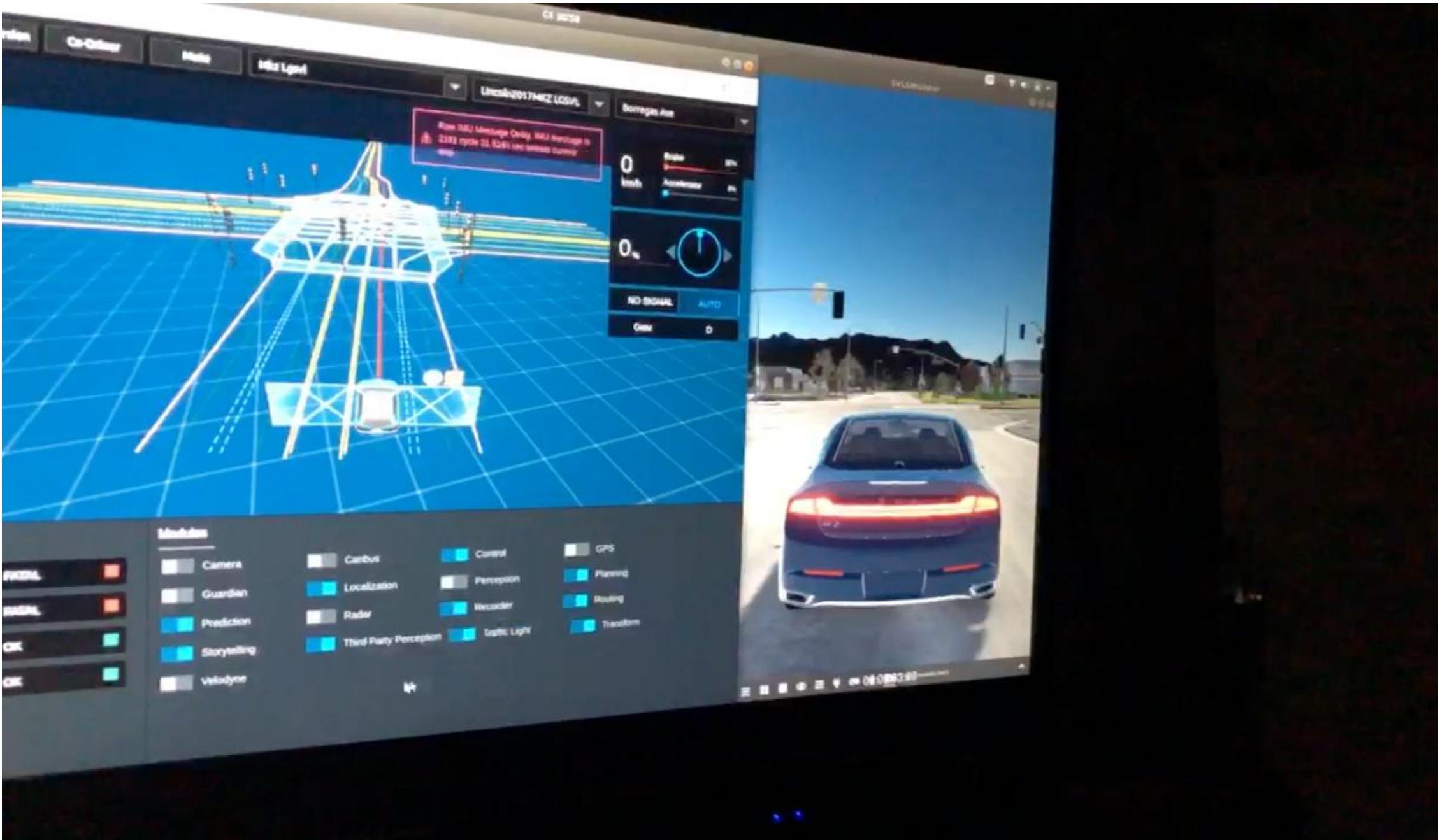
- Robot no.1** status: DEPLOYED 72% 3,8V Estimated range: 8km Connection: 5G Signal: 8°C Temperature: 80km Distance driven: BACK TO BASE
- Robot no.2** status: DEPLOYED 100% 3,8V Estimated range: 8km Connection: 5G Signal: 8°C Temperature: 80km Distance driven: BACK TO BASE
- Robot no.3** status: FREE 60% 3,8V Estimated range: 8km Connection: 5G Signal: 8°C Temperature: 80km Distance driven: BACK TO BASE
- Robot no.4** status: PROCESSING 100% 3,8V Estimated range: 8km Connection: 5G Signal: 8°C Temperature: 80km Distance driven: BACK TO BASE

ACTIVE ORDER Edit ASSIGNED ORDERS Show all ORDER HISTORY Show all

order id:	name:	DATE	TIME	ORDER ID
#5467	Restaurant xy	12.02	12:00	#3453485984539834
		12.02	13:00	#3453485984539834
		12.02	14:00	#3453485984539834

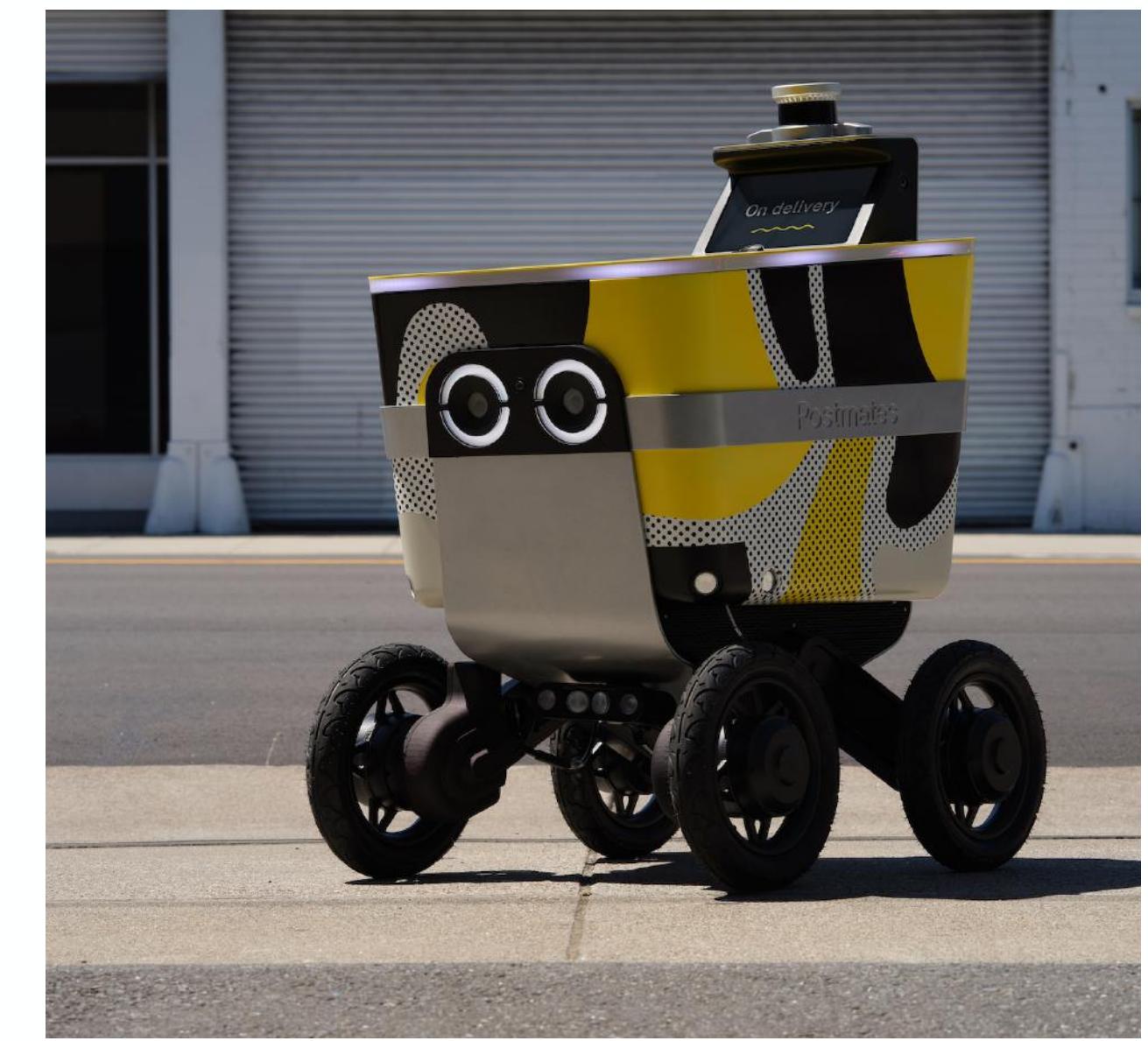
autoware & orb slam

MOBILE / WEB APPS / API / CANBUS CONNECTION

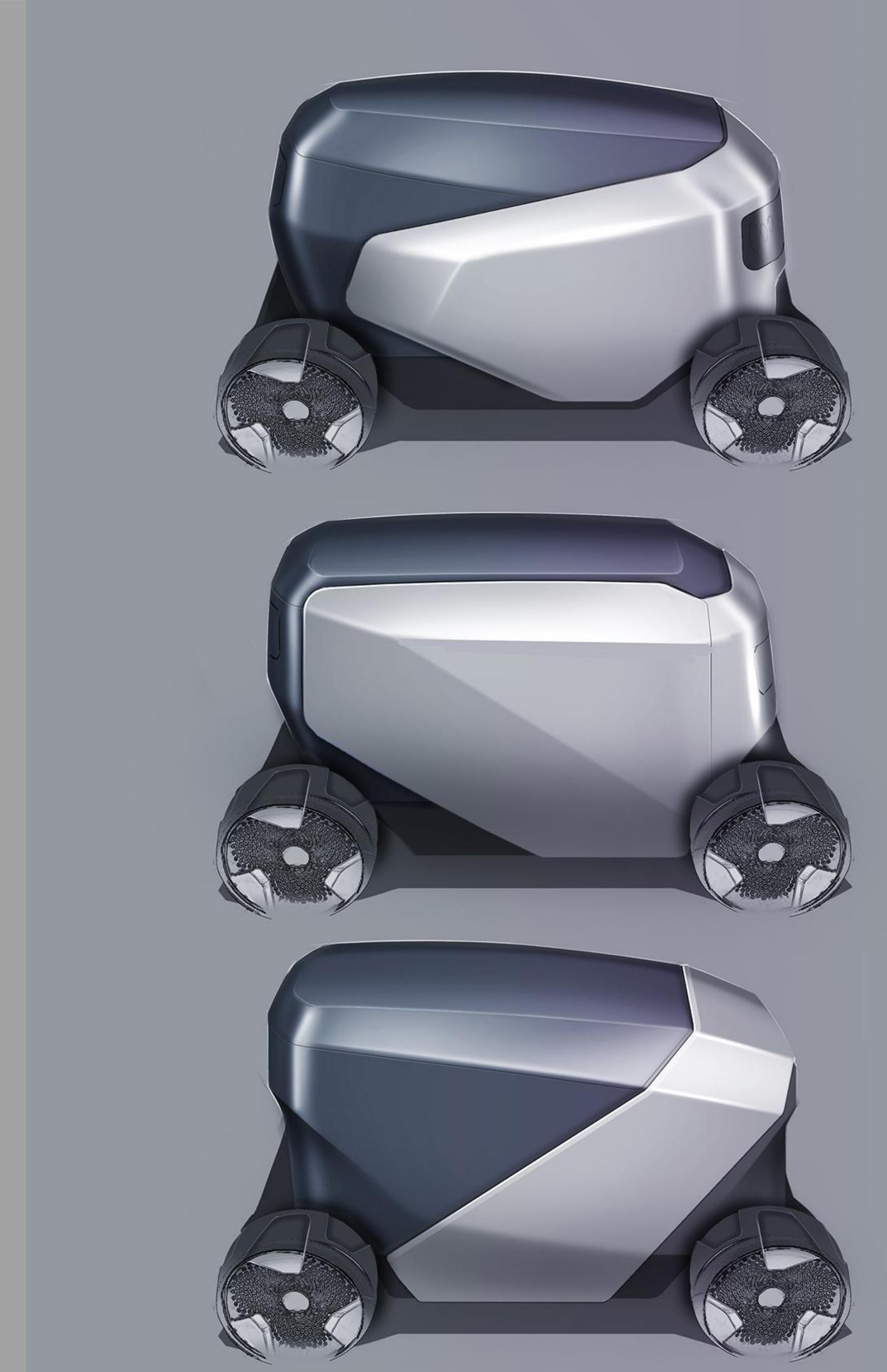
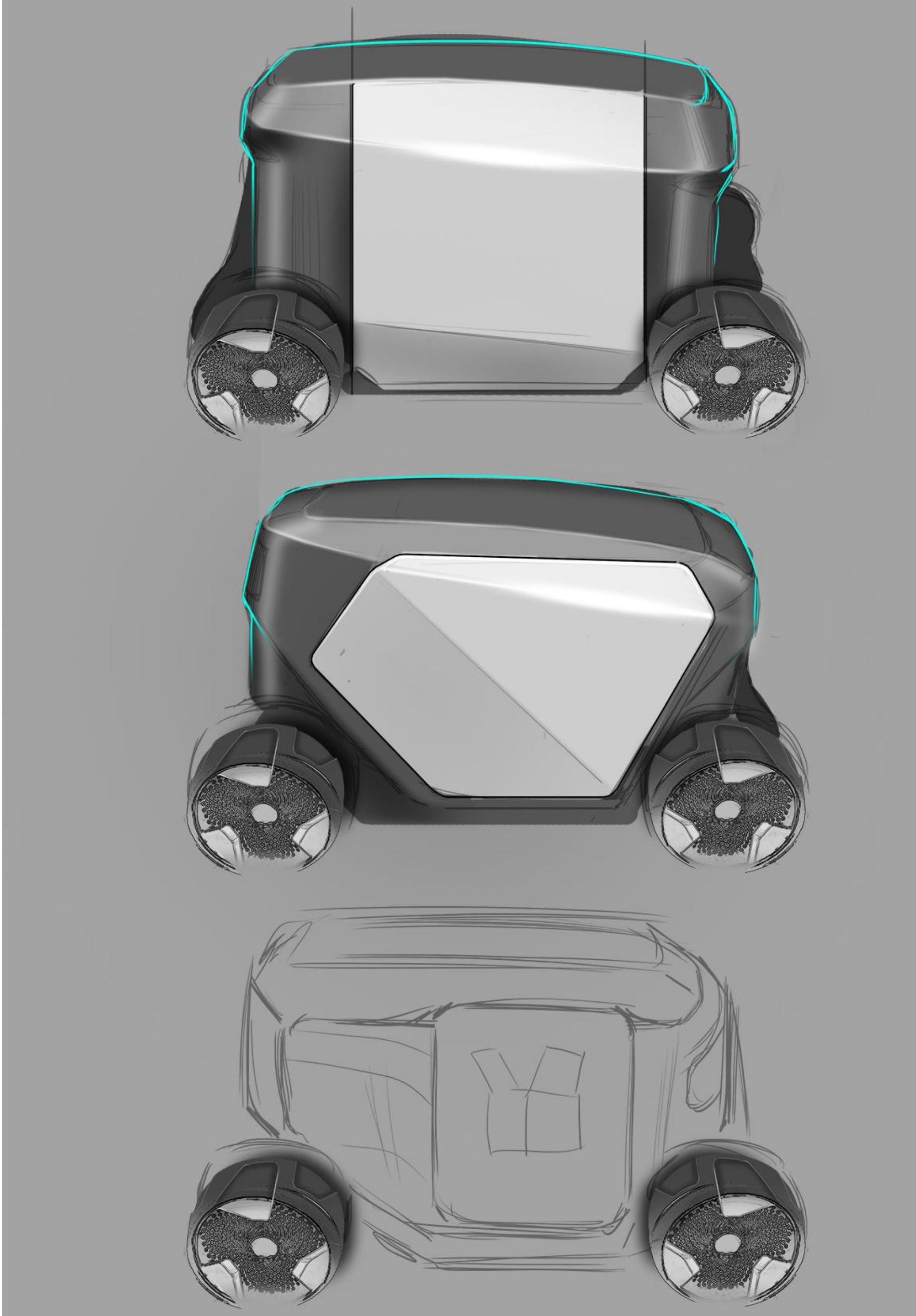


LAST MILE DELIVERY COMPETITION

starship technologies amazon deliveries postmates



3D DESIGNS
vision



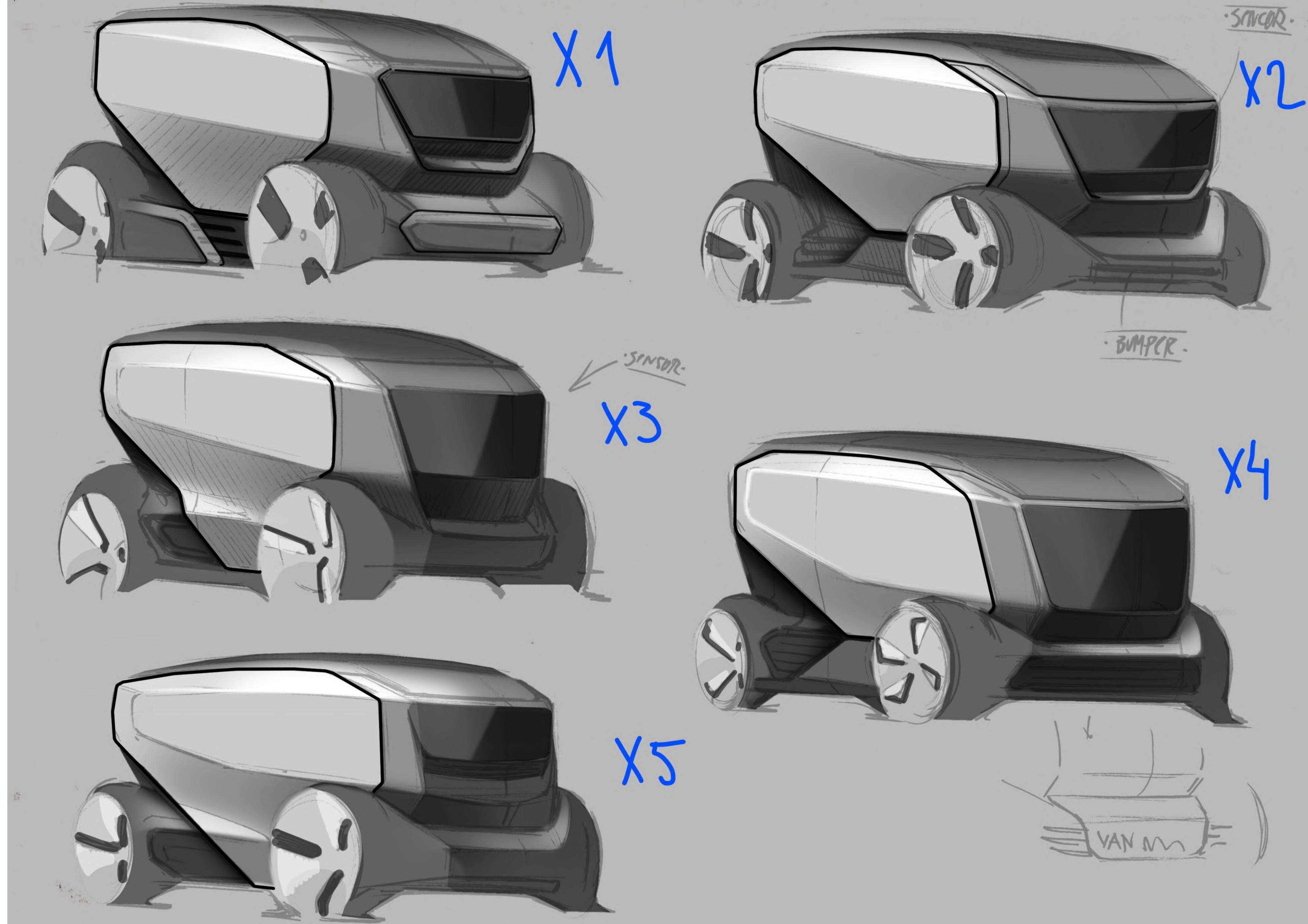
01

02

03

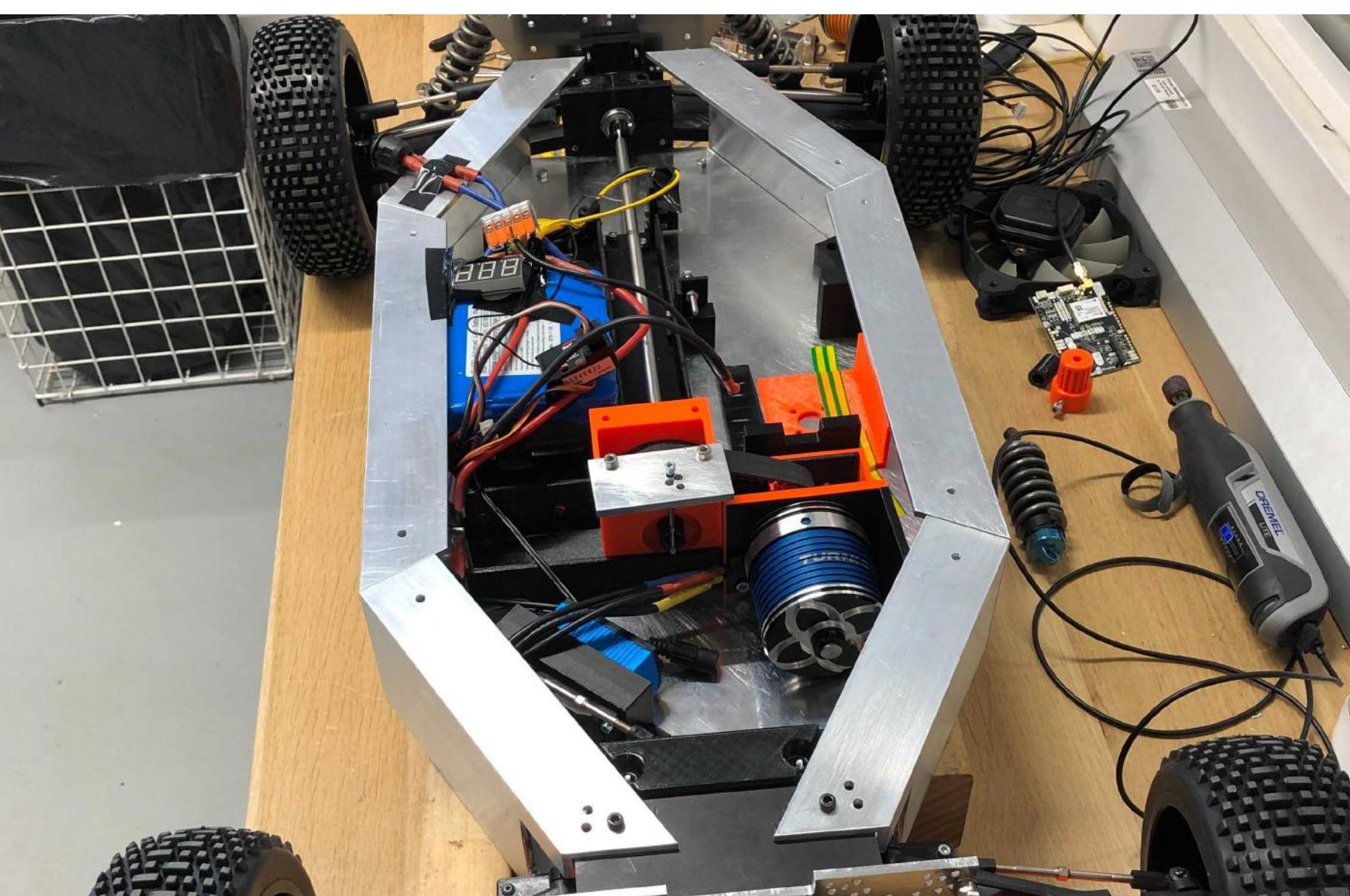
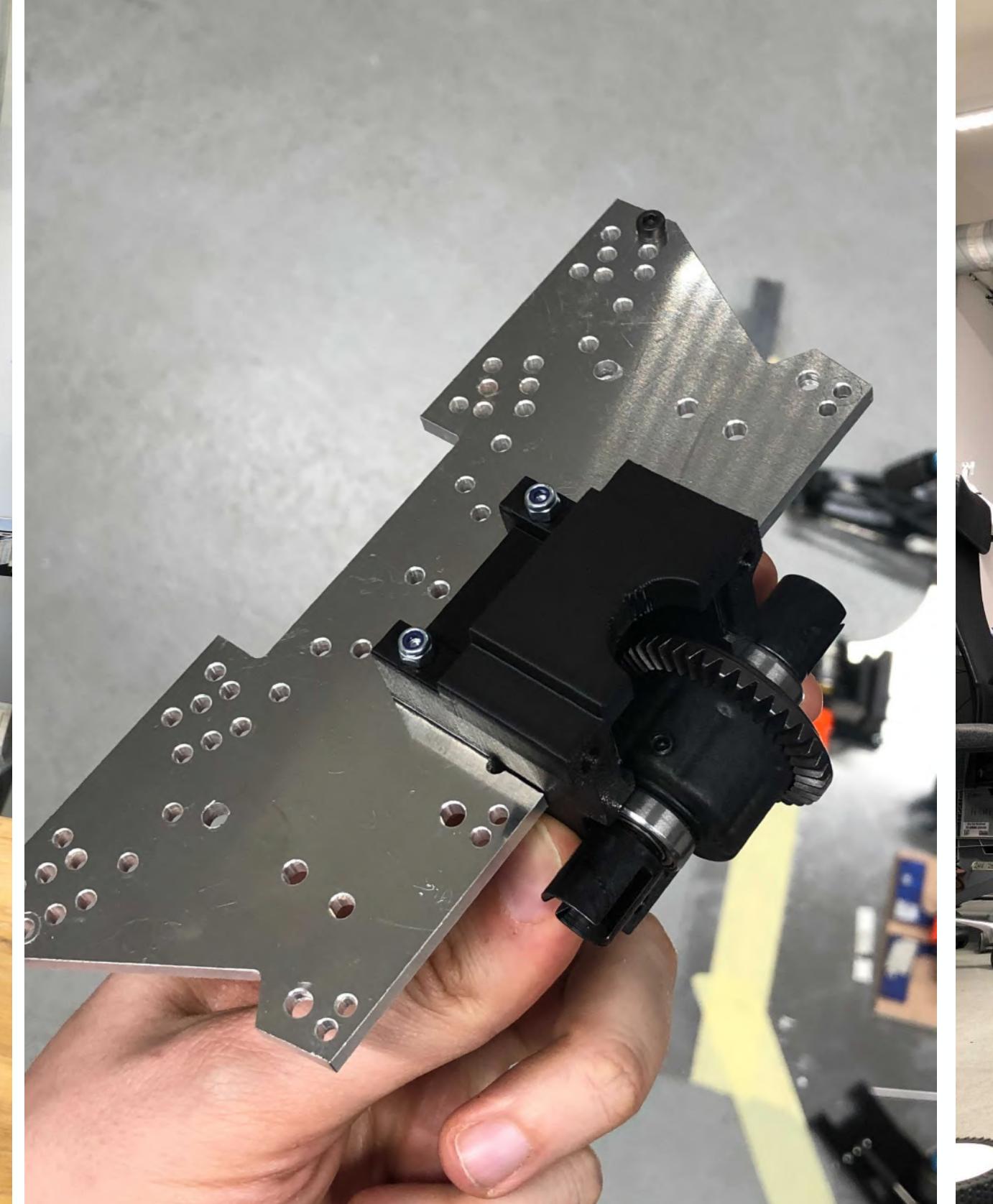
3D DESIGNS

vision



PROGRESS

build log





HARDWARE CHASSIS

applications



CO-OPERATION

DEČÍN

Technical university joint operations



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