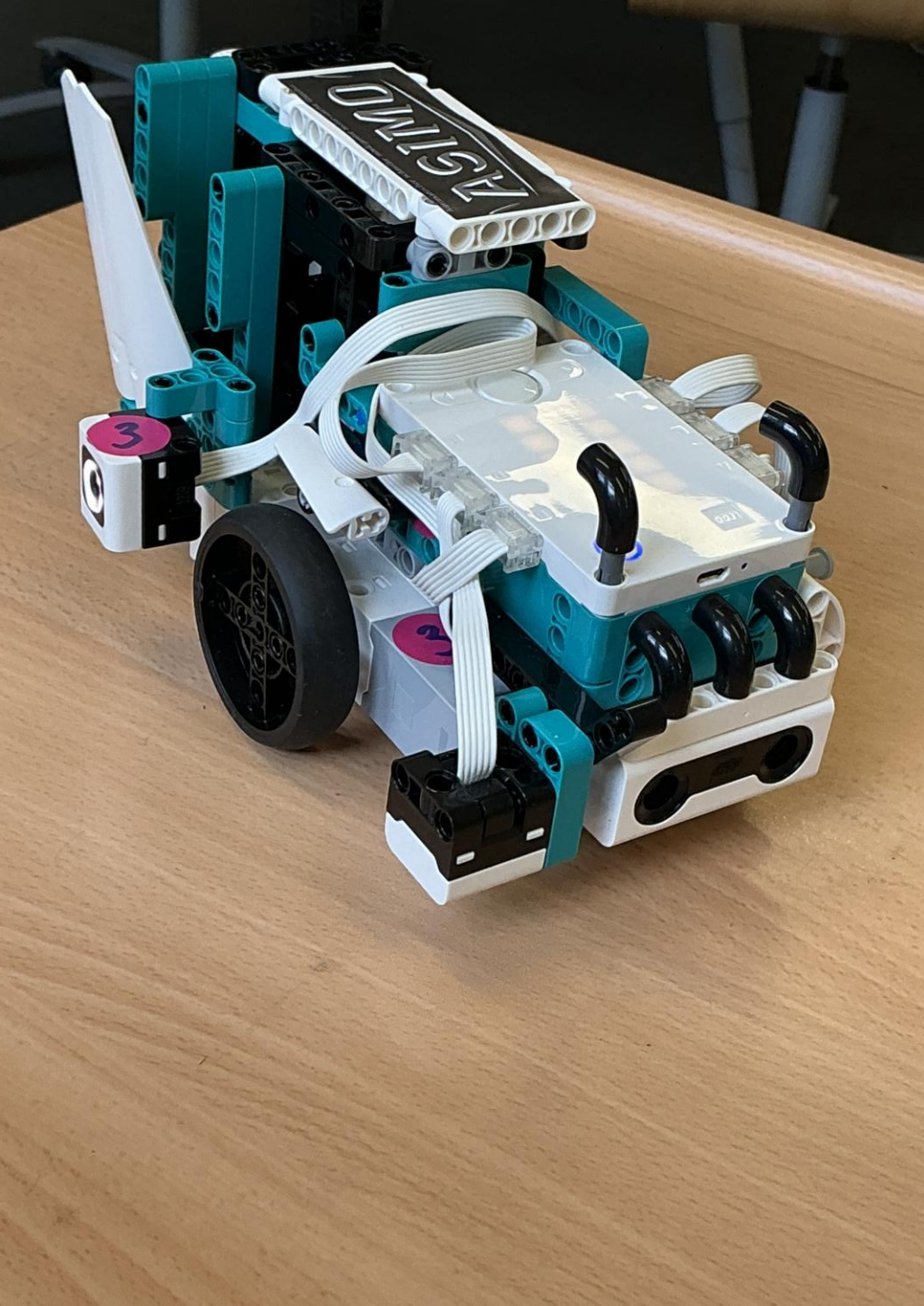




safe.fast.smart.

ASIMO!

Ben Baumgartner & Kayra Wyss®

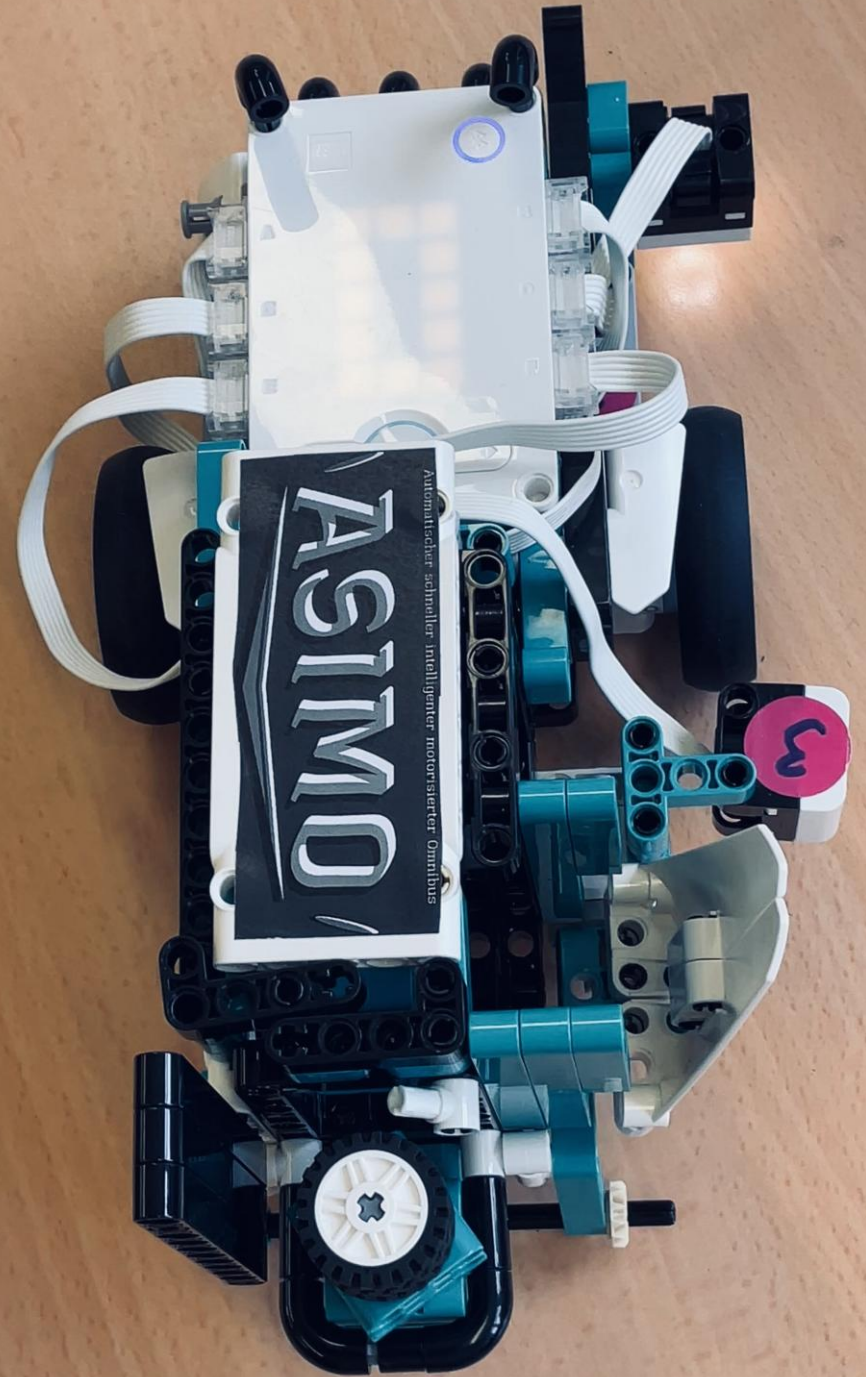
PROBLEM

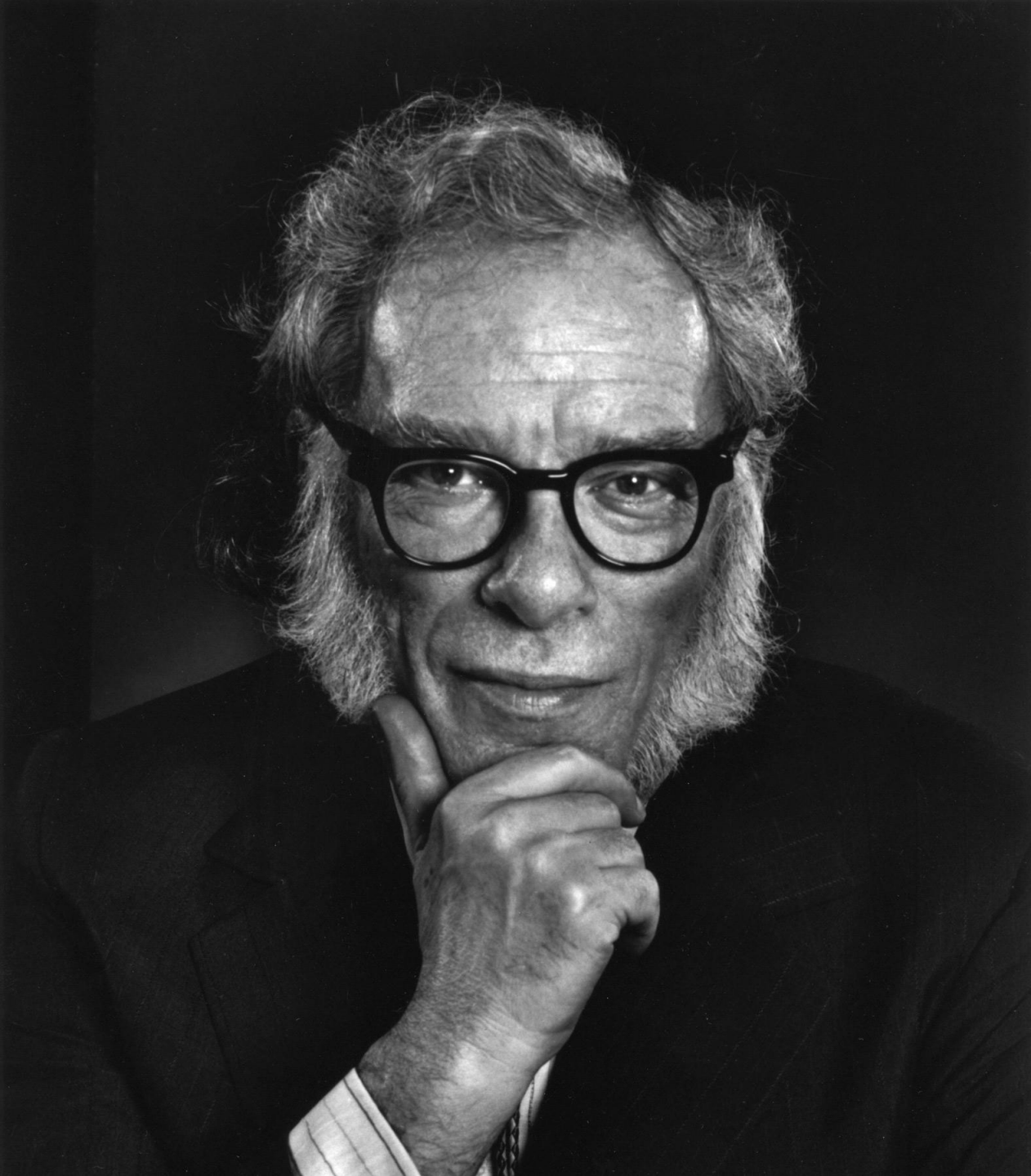
More and more parents think they have to drive their children to school by car, which leads to overcrowded parking lots, a lot more exhaust fumes, annoyed parents, danger for other children, less independent students, and much more traffic.



SOLUTION

ASIMO is a robotic vehicle that can replace these "parent taxis." It picks children up from home at a certain time, brings them together with other students to school, and drops them off there. But ASIMO doesn't have to be used only for children. For example, it could bring adults to work, seniors to the doctor, or guests to a party (and especially back home ;-). ASIMO's door is friendly to wheelchair users, what means that everybody can use him.





INFORMATION

ASIMO stands for automatic, speedy, intelligent, motorized omnibus and is also a tribute to the famous sci-fi-author and inventor of the robot laws, Isaac Asimov, called „the good doctor". He made over 450 publications in his life.

RESEARCH

COUNTRY	PRIMARY SCHOOL CHILDREN	BROUGHT TO SCHOOL WITH CARS (DAYLY)
USA	Ca. 24 Mio	<i>Ca. 13 Mio.</i>
UK	Ca. 4.5 Mio.	<i>Ca. 1.5 Mio.</i>
GERMANY	Ca. 2.8 Mio.	<i>Ca. 700.000</i>
SWITZERLAND	Ca. 550.000	<i>Ca. 100.000</i>
NETHERLANDS	Ca. 1.3 Mio.	<i>Ca. 130.000</i>
DENMARK	Ca. 400.000	<i>Ca. 30.000</i>

Here is a small statistic to see how many children are driven to school.

Quellen

TEAM

Kayra Wyss:

Age: 12 years

Hobbys: Tennis, Piano

School: Talacker (Uster)



Ben Baumgartner:

Age: 12 years

Hobbys: Kung Fu,
Soccer

School: Talacker
(Uster)

WORK

As the Future Innovators team, we took part in the World Robot Olympiad (WRO) 2025 and developed our own robot using LEGO Mindstorms. Over the course of three months, we met once a week and worked for a total of around 30 hours. Our goal was to create a creative and functional solution to a real-world problem. Step by step, we built and programmed our robot, combining teamwork, persistence, and technical skills. We are proud of what we have done and are very excited to present it.

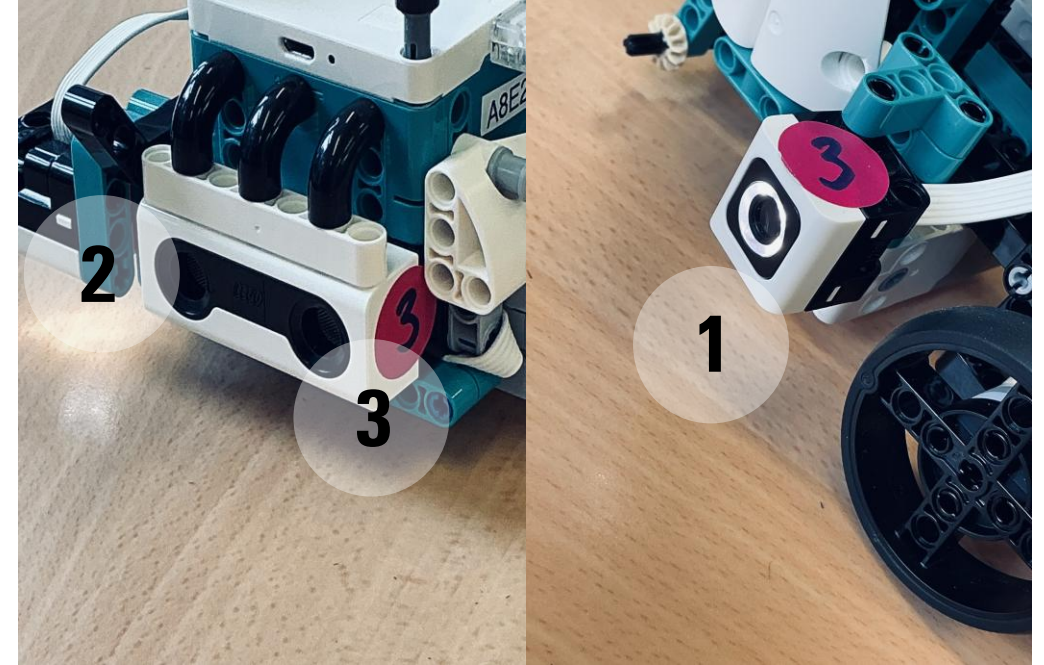
SENSORS

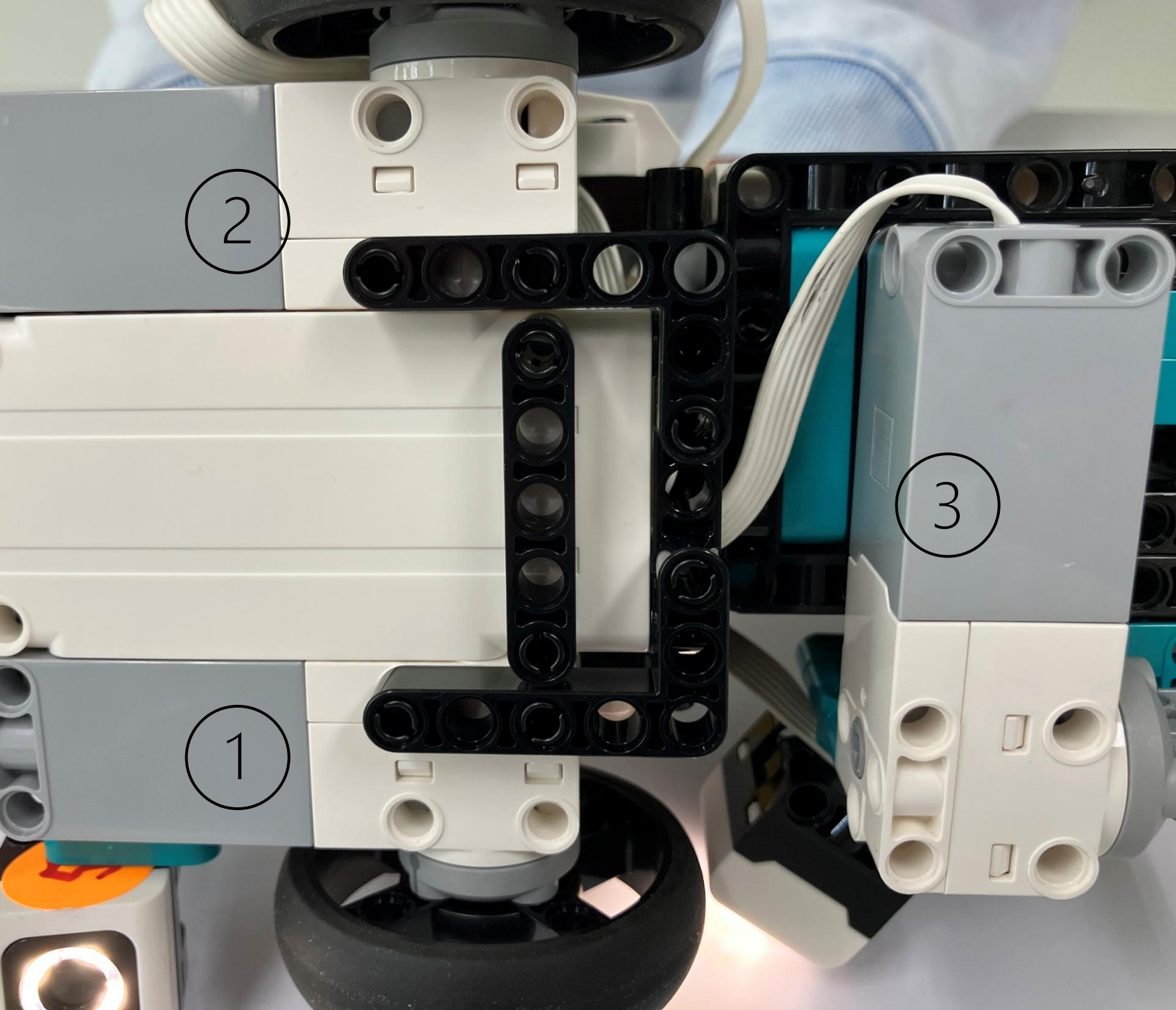
Colour sensors(1/2):

The colour sensors help ASIMO to stay on the road(2) and it identifies the children(1). It is one of the most important things of ASIMO. One of them is in the front and the other one is on the right.

Distance sensor(3):

The distance sensor helps ASIMO to check if someone is in front of him, that is very important for safety. It also has lights on it, what makes it easier for the other (human) drivers.





MOTORS

Motors:

We got three motors. They do all the movement. From driving and braking(1/2) to opening and closing the door(3). The speed may vary on the street because of the speed limits.

FUTURE PLANS

Make ASIMO real:

ASIMO is still a prototype. We want to make him real and for the streets, because we don't think that we can put a 25cm LEGO vehicle on a street

SELLING ASIMO:

We want to rent ASIMO, maybe to a interested gouvernement or a other organisation. Perhaps we can make it a part of the public transport network.

ASIMO APP:

We would like to program an app, so parents can un/register their kids. With that app people could also easily order one ASIMO as a taxi or transporter.

**SAFE. FAST.
SMART.**

-
**ASIMO GETS
YOU THERE**

