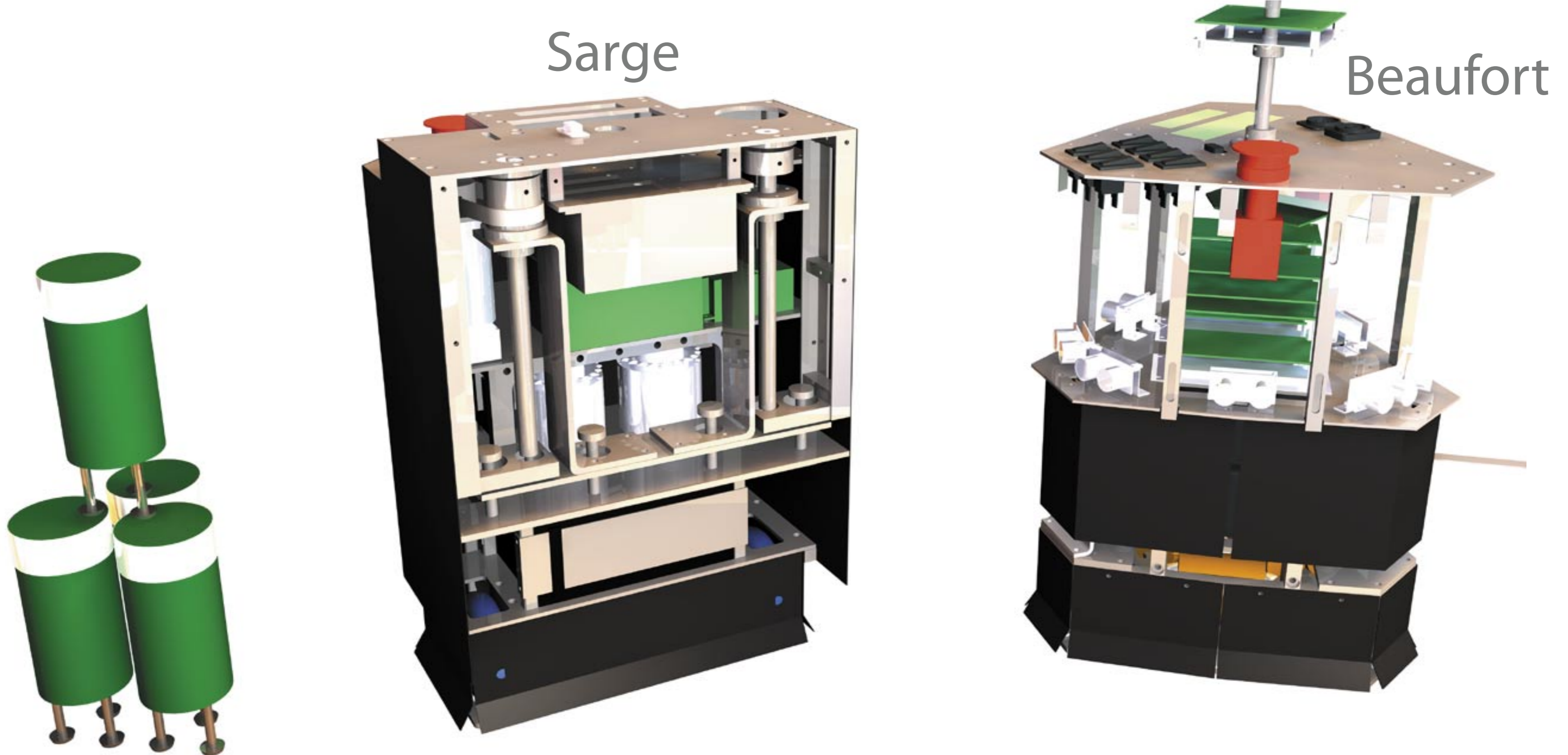
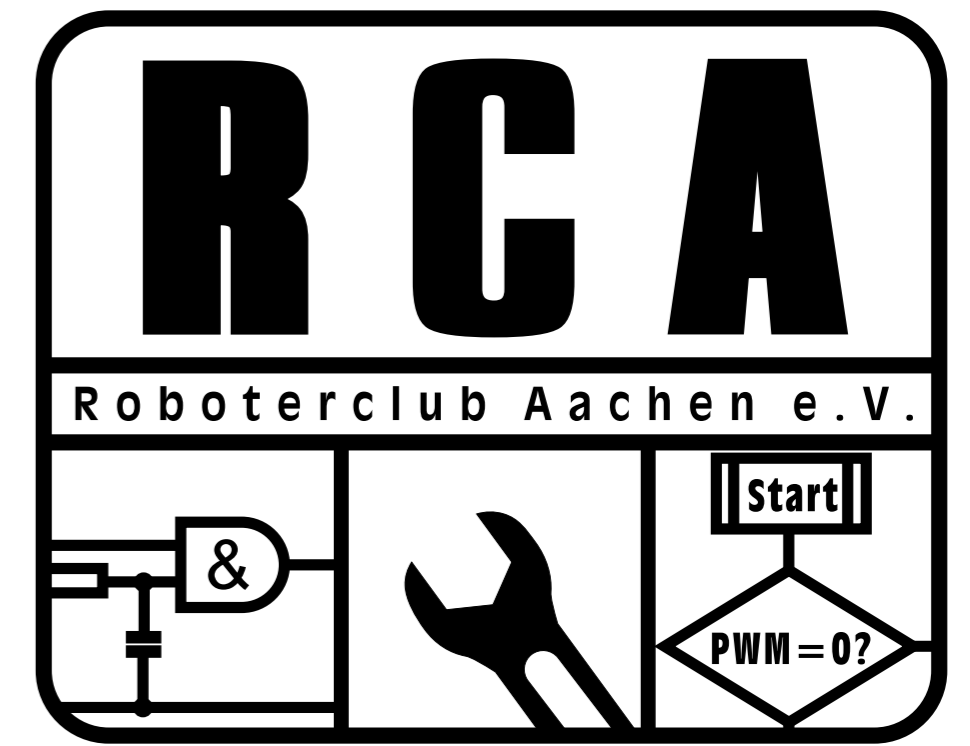


Roboterclub Aachen e.V Eurobot 2005

<http://www.roboterclub.rwth-aachen.de/>



Robot Design

We would like to introduce to you our team of two robots, Sarge and Beaufort.

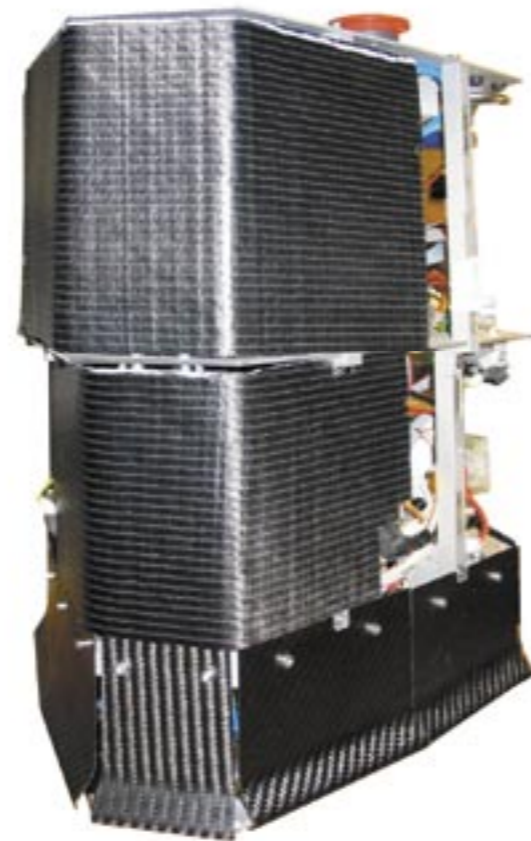
Beaufort blows our skittles, whereas Sarge shoots at them and reerects the fallen opponent skittles on our side afterwards.

Both robots benefit from a variety of sensors, including infrared, ultrasonic, optical, and bumper technology.

These sensors serve several purposes like positioning the bots, finding skittles and obstacles or avoiding enemies.

Sarge's cannon accelerates squash balls to a high velocity. Its crane lifts the feet of the skittles with the help of magnets and releases them upside-down.

Beaufort is equipped with an 800 Watts radial fan that can knock down skittles more than half a meter away.



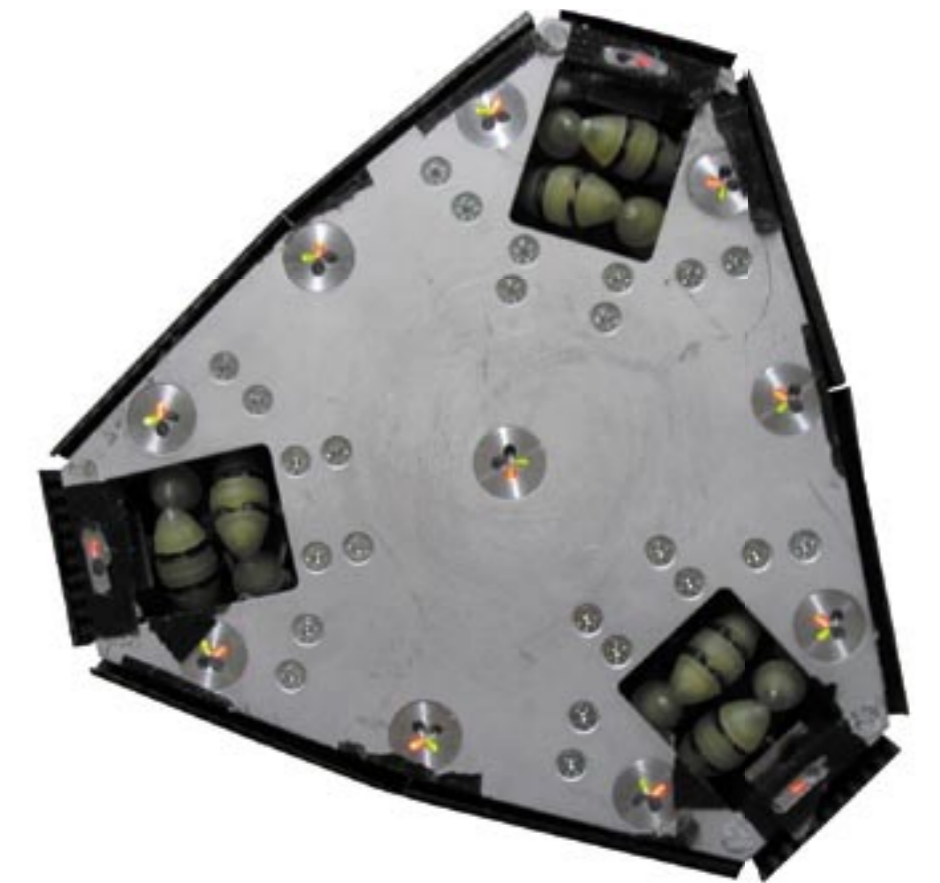
Ballproof carbon fibre cover with integrated bumpers.



Loud squash ball cannon that fires balls at approx. 50km/h.

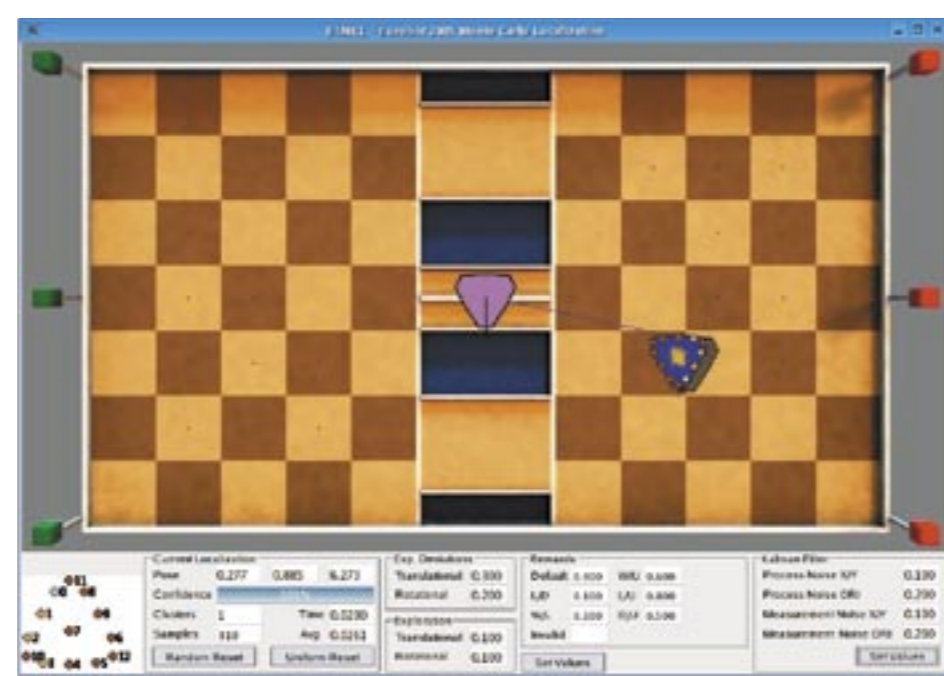


Nozzle of the radial fan. Even louder than the cannon.



Optical sensors detect the color of the floor. To be used with Monte Carlo Localisation.

You can also see Beaufort's omnidirectional drive.



Screenshot of our localisation software



Contact

Roboterclub Aachen e.V.
c/o Sven Wittig
Theaterstr. 25
52062 Aachen, Germany

roboterclub@rwth-aachen.de

