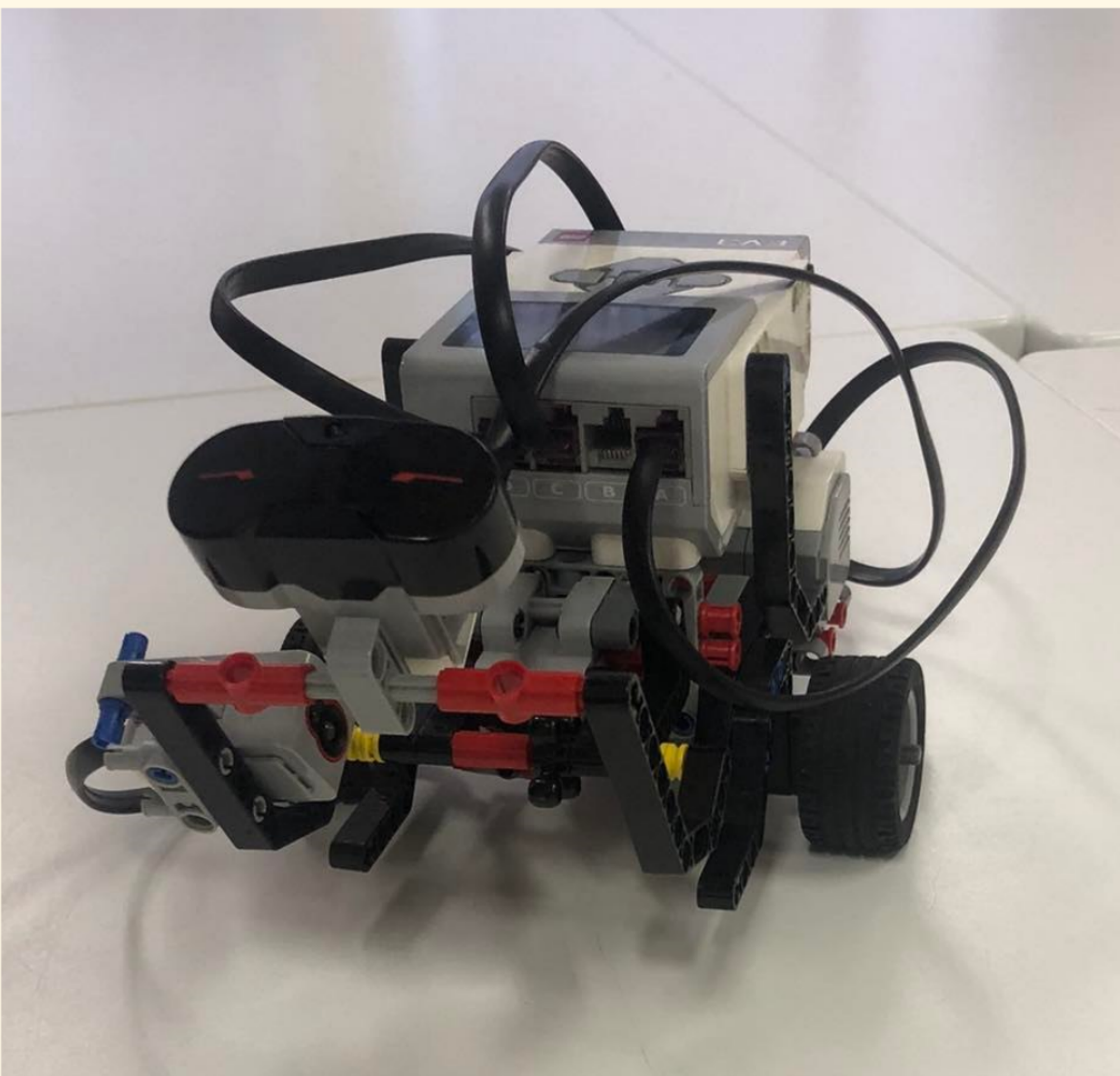


CAN ROBOTS HELP WITH TRASH SEGREGATION?

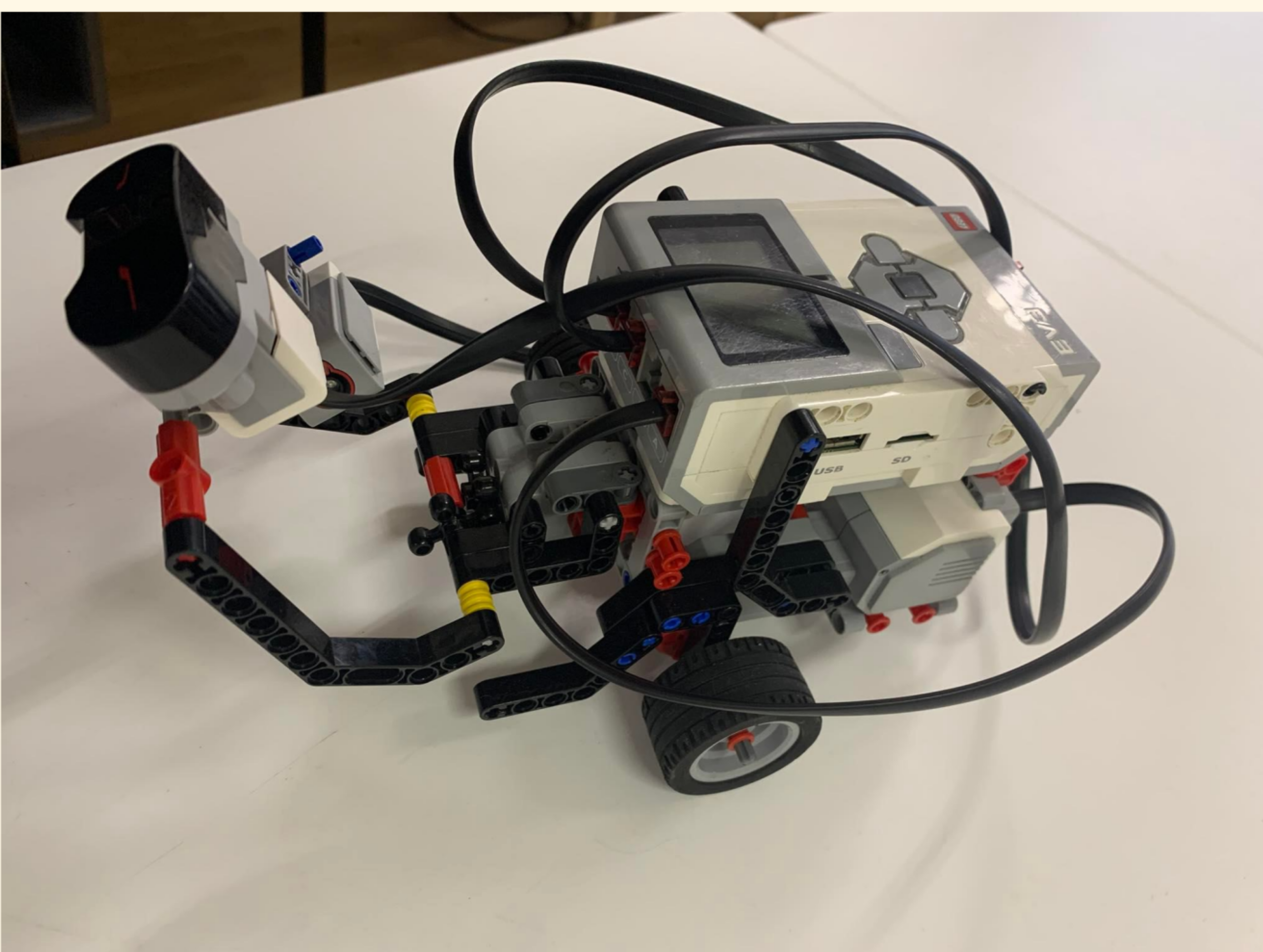
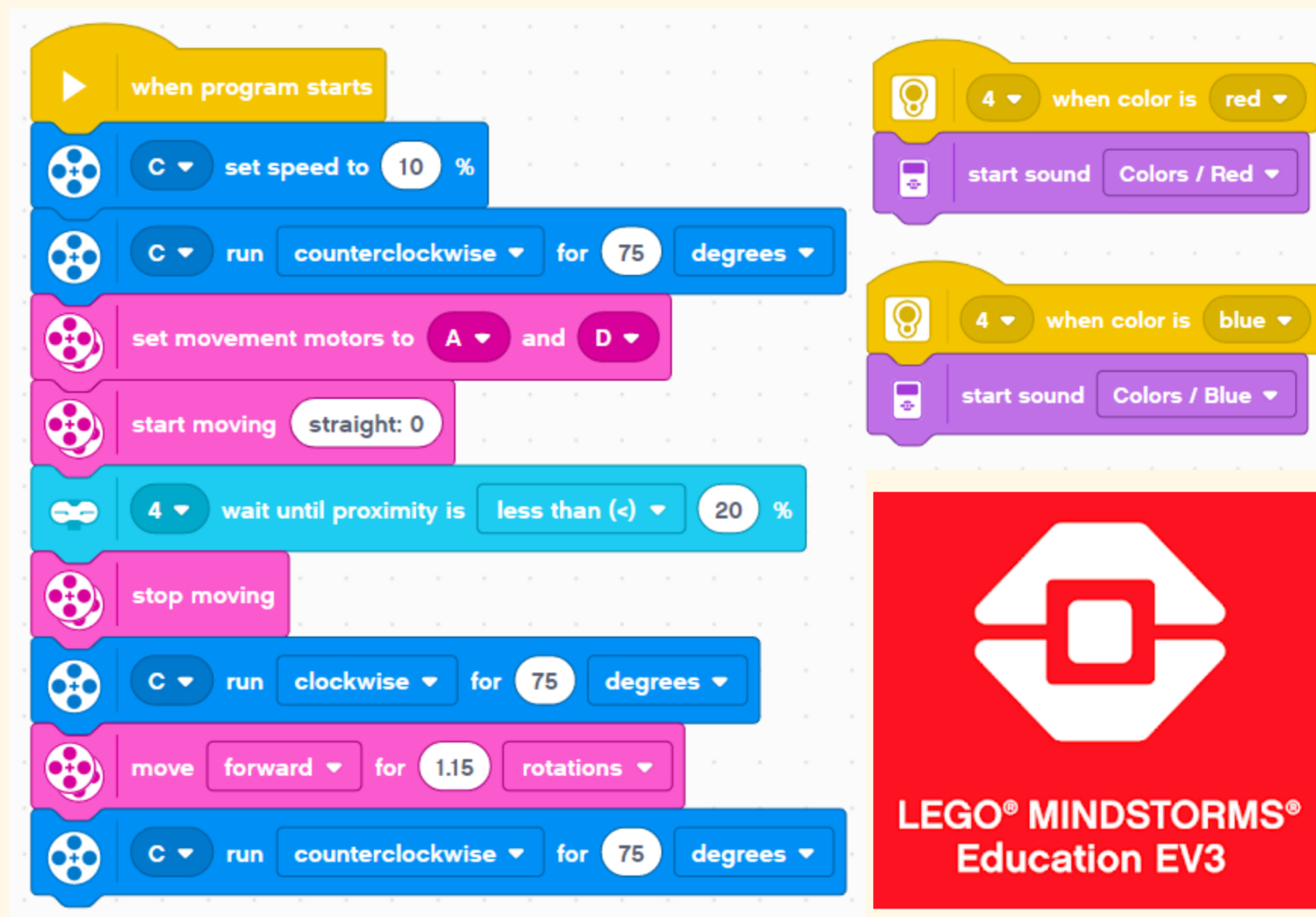
Iceland
Liechtenstein
Norway grants

Julia Witek, Sara Widlińska, Patrycja Martyniak,
Melania Żurawik, Lena Ceranowicz



We used LEGO®
MINDSTORMS® Education
EV3 to build our robot and EV3
Classroom LEGO® Education
to program it.

Landfills are overloaded with trash and what's worse most of the time they aren't segregated. This is a huge problem for the environment and therefore we wanted to create a prototype for a robot that could aid in solving this problem.



The robot drives until the proximity sensor detects an object in front of it. It raises its arm and moves forward so that when the arm goes down the object will be inside. The color sensor is then able to differentiate the color (in our case red and blue) which is then said. This is the first step needed to having it segregate trash.

