

TDDD63 Project:
EXAMPLE PROJECTS

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1 example projects

1.1 fighterbots

1.1.1 description

The ev3 have the possibility to track a remote if its have been to trackmode so the remote continuously sends out an IR signal which the ev3 can see the distance and the angel to and with that calculate the distance. You and another group could each build a fighterbot and then try to track each others robots and then shoot at it.

1.2 rubics cub solver

1.2.1 description

There have already been alot of different rubics cobs solver using ev3 but none as far as I know that have been implemented with python. You could be the first. There are alot of algorithms for solving rubics cubes out there.

1.3 sorter

1.3.1 description

Your robots would sort a unknown number of balls in different colors using different sorting algorithms. The user would choose which algorithm to use and how to sort the balls from the GUI and the robot would then carry out the sorting.

1.4 wall-e

1.4.1 description

There is a open floor with alot of balls on it. The robot will search the floor and pick up balls and place them in a container that is located using the remote control beacon.

1.5 fork lift

1.5.1 description

A package has an IR-beacon and the robot will find it and manage to pick it up and transport it to a destination indicated by another beacon.

1.6 skeet-shooter

1.6.1 description

You will place the ir-beacon on a certain location which the robot can see and the robot will try to shoot at it with the highest precision. The can be done by using trajectory of a projectile equations and an IR-sensor than can be tilted so you get the degree from the robot in the xy-plane and xz-plane.