PROGRESS OF WORK

Day	What we did	What we finished	Goals for the next time
March, 12th	 package installed : rplidar decreasing speed of the turtlebot smooth displacements 	• command the turtlebot with the joystics	 create launch files to avoid having lots of terminal windows opened find a way to avoid obstacles with the turtlebot
March, 19th	 creation of packages and launch files for mapping and navigation, on the workstation and on the turtlebot arbotix: researches about this package 	mapping and navigation of the turtlebot (except obstacle avoidance)	 find a way to avoid obstacles with the turtlebot find a way to give the arm a scene to execute make more researches about the arbotix package
March, 26th	 creation of a script file ./connect.sh to make an easier connexion between the turtlebot and the workstation arbotix_gui : allows to test each motor of the arm 		 find a way to avoid obstacles with the turtlebot find a way to give the arm a scene to execute
April, 4th	 when the arm is not reponding: move the cables or resourcing 3 launch files found to give the arm a scenario to execute: creation of a launch file that regroups these 3 launch files make a copy of the scenario file pick_and_place.py to modify it by keeping the original one 	ask the arm a scene to execute	 find a way to avoid obstacles with the turtlebot modify the scene to reproduce the scenario of our project

April, 23rd	 teachers changed cables of our robot arm, it works better now modifications on the scene, problem: the arm does place the cube after picking it solving problems of execution time with rqt_reconfigure navigation parameters modified: turtlebot now avoids obstacles 	mapping and navigation of the turtlebot (with obstacle avoidance)	solve the problem of placing the cube : why the arm does not place the cube, whatever the given position ?
April, 24th	• the cube's size must be between 0.03 and 0.07 to make the arm places the cube. We have a cube of 0.18, too big HYPOTESIS: it might be the threshold in the library???		 ask the teachers about the cube's size problem see if we can implement the coordinates of the table in the navigation.launch to let the turtlebot going there alone, only by launching the file navigation
May, 2nd	• we cut the cube to obtain a smaller one	• the entire part with the arm	