

Progress Report - Group 8

Robotics (E019370A) – A Minesweeping Robot

Week 1: 16/11/2020 – 23/11/2020

Below a small progress update can be found of group 8 concerning the minesweeping robot project of the 'Robotics 2020-2021' course. The left column describes what has been done during the last week, the right column describes what is planned as next steps with the focus on next week.

What has been done?	What is planned for week 2?
<p>General</p> <ul style="list-style-type: none"> Interpreting assignment and identifying subtasks (Together) <ul style="list-style-type: none"> Team meeting on 16/11/2020, 20/11/2020 and 23/11/2020 Writing progress report week 1 (Lauren) Setting up GitHub (Lauren and Flor) Setting up Overleaf (LaTeX) for report writing (Lauren) <p>Simulation</p> <ul style="list-style-type: none"> Exploring general possibilities Gazebo <ul style="list-style-type: none"> Building a first world and interacting with existing Turtlebot program (Lander and Lauren) Exploring possibilities for communication between Gazebo and ROS (Lander) <p>Robot Algorithms</p> <ul style="list-style-type: none"> Exploring ROS basics for own ROS development (Flor, Lander and Henrique) Writing basic - extendable - ROS package for simple robot operations. (Flor and Lander) <p>Evaluating Strategies</p> <ul style="list-style-type: none"> / 	<p>General</p> <ul style="list-style-type: none"> Follow-up on subtasks and integrating them (Together) <ul style="list-style-type: none"> Team meeting on 27/11/2020, 30/11/2020 Writing progress report week 2 (Lauren) Writing report: Introduction (Lauren) <p>Simulation</p> <ul style="list-style-type: none"> Building an - extendable - test environment with walls and obstacles for the Turtlebot (Lauren) Distributing mines in test environment (Lander and Lauren) Further exploring possibilities for communication between Gazebo and ROS (Lander) <p>Robot Algorithms</p> <ul style="list-style-type: none"> Implementing SLAM for map building (Flor) Extending ROS package with first sweeping strategies (Henrique) <p>Evaluating Strategies</p> <ul style="list-style-type: none"> /