IGVC Milestone 5

Task matrix:

Task	Completion %
Software Documentation	80
Improving the simulation	50
Control the robot movement	100

<ロ> <個> < 国> < 国> < 国> < 国> < 国</p>

Change of plan:

Because of the situation with the Coronavirus, the team could physically access the robot.

- Focus more on documentation and simulation.
- Prioritize software development over hardware

Instruction instruction for building and running the simulation. Resources A list of reference material for learning and editting the project.

Included adjustments apply to the material

Improve experience for running and building software:

- Create a ROS launch file, which run multiple ROS nodes at the same time.
- Include a makefile to setup environment, build and run the project.

▲□▶ ▲□▶ ▲□▶ ▲□▶ ▲□ ● ● ●

Control the robot movement:

- The robot moves and turns by adjusting the speed of two rear wheels.
- Create a custom ROS message to provide interface for controlling the robot movement.
- Currently used to manually control the robot.
- When the motion planning module can be integrate, the robot's movement can be automated.

Contribution discussion:

Viet Dung Nguyen

- Write the document for the simulator.
- Streamline the process for building and running the simulator.
- Update the plugin, which provided interface for movement control.
- Consult about the implementation of other members work into the simulation.

Plan for the next milestone:

Improve the documentation:

Included coding standard and practice for editting the project.

Refactor the code:

- Modularize the path filtering in order to hotswap filters.
- Changing the parameters of the mapping module with a config file or environment variables.

▲□▶ ▲□▶ ▲□▶ ▲□▶ ▲□ ● ● ●

 Assist other members with including their works into the simulation.

Questions?