IGVC Milestone 6

Task matrix:

Task	Completion %	Viet Dung
Assist other member with	100	100
simulation		
Refactor the code	100	100
Add obstacles to the simulation	100	100

Task Discussion:

Assist other member with the simulation:

- Adjust the build script for different Linux distros.
- ▶ When using ROS1 with Python3, the users must specify the location of Python 3.
 - Different between distros.

Task Discussion:

Refactor the code:

- Improve the mapping function.
 - Previous method:
 - Extract the list of coordinates of objects (obstacle, lane)
 - Perform rotation and scaling on the list using transformation matrices.
 - Current method:
 - Perform rotation and scaling on the image using OpenCV provided methods.
 - Extract the coordinates

Adding obstacles:

▶ Add the model for obstacle and place obstacles on simulation.

Contribution discussion:

- Viet Dung Nguyen
 - ► Contact with other members to improve the software
 - ► Improve the mapping function
 - Create the model for obstacle
 - Change the map.

Lessons learned:

- Learn how to use ROS
 - Writing publisher, subscriber and custom ROS msg and service
- Learn how to use Gazebo for simulation:
 - Design models using specification document
 - Writing plugins for controlling robot
- Learn more about image filtering and mapping

Questions?