Milestone 1

Requirements Document

Scope

- The rule of the competition:
  - Navigate through the course, following the lane
  - Avoid the obstacle
  - Reach the waypoint
  - Maintain the speed between 1-5 mph

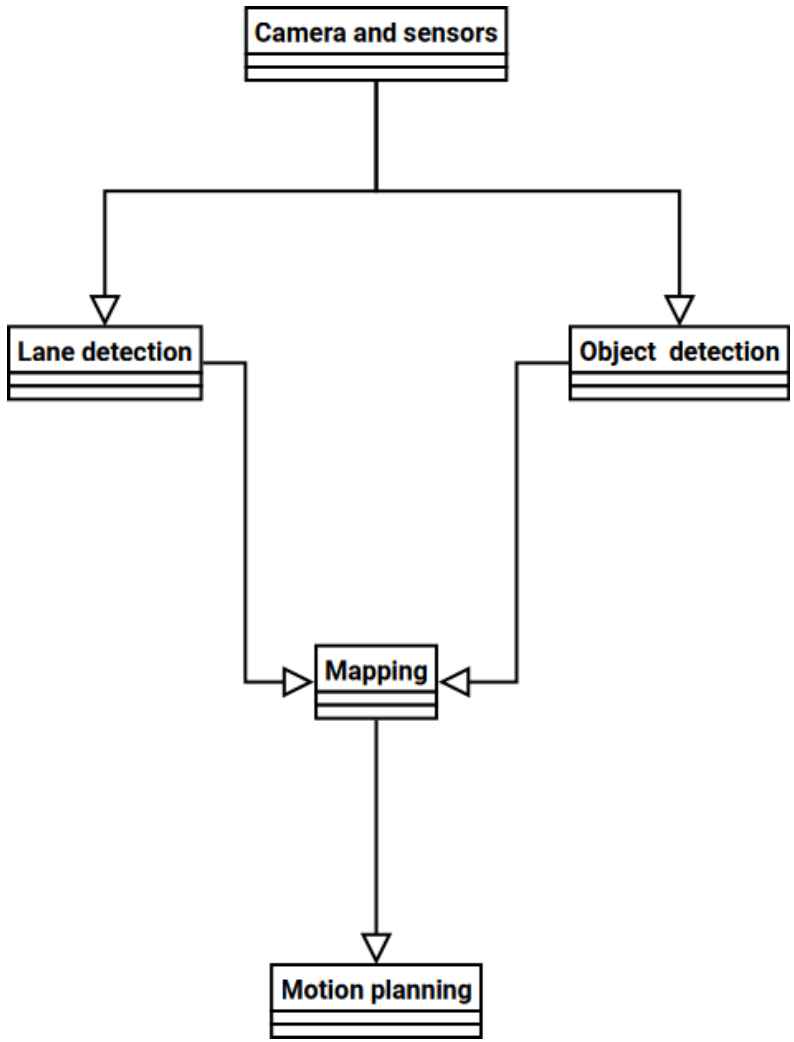
Design Document

Modules

- Camera and sensors.
- Images processing:
  - Lane detection
  - Obstacle detection
- Mapping
- Motion planning

Design Document

- List the subsystems of the robot and demonstrate the data flow.



Testing Document

- List the test cases for each subsystem.
  - Independent testing
  - System testing / Integration testing.

Establish best practices

- The team chose C++ and Python for the project's software.
- The team was able to chose tools for enforcing the code standard.

Examine the legacy code

- Read and examine the code from last year project.
- Unable to test it due to hardware condition.

Examine options for motion planning

- The team was able to learn more about motion planning.
- Motion planning algorithm will be chosen after implementing and testing other functions.

Milestone 2

- Test the legacy code
  - Find the replacement parts for the robot to make it functional and test the code from last year project.
- Implement and test obstacle and/or lane detection
  - Read the document on ZED camera and write ROS node(s) for detection functions.

Question?