# Autonomous Car Autominy Dr. Roger Miranda Colorado

#### **Setting up the Autominy**

<u>car</u>







After installing the Autominy package, we can make a first test with the simulator. To this end, we can use the next command:

- 1. \$ roslaunch autominy Simulated.launch
- □ Then, we obtain an environment where we can make some tests with the simulated Autominy car.
- □ All the **topics** from the real vehicle are available in the simulator.
- We can use the topics to make the vehicle to move.
- □ We can design some programs to control the autonomous car.

The following video shows how to use the simulator for controlling the autonomous vehicle.



Now, for the real vehicle, we can follow the next steps to **start up the car**:

- 1. Switch the lever pointing towards the back of the car.
- 2. Press the start button for at least 3 seconds.



- Then, the car turns on, shows the battery level through the LEDs (rear and back).
- Green, yellow, and red for voltage above 14.8 V, between 13-14.8 V, and below 13 V, respectively. Turns off if voltage is below 12.8 V. The voltage tester may begin buzzing!

3. After turning on, it kakes about 30 *s* for the NUC to boot. Then, the car's software starts up and the LIDAR starts spinning.



4. After turning on the car, we can make some tests on the actuators, i.e., we connect our computer to the car and send some commands to make it to move.



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