

# ECE 4703: Mobile Autonomous Robots

## Homework Assignment 4

1. Build a Movable Robot Model with Unified Robot Description Format (URDF) that you can view in Rviz.
  - (a) create URDF robot description file;
  - (b) define the joints shown in Fig. 1;
  - (c) add sensors such as camera, laser and Kinect Camera to the URDF model, shown in Fig 2;
  - (d) publish the state of your robot to TF, using the robot state publisher;
  - (e) run all the parts together.

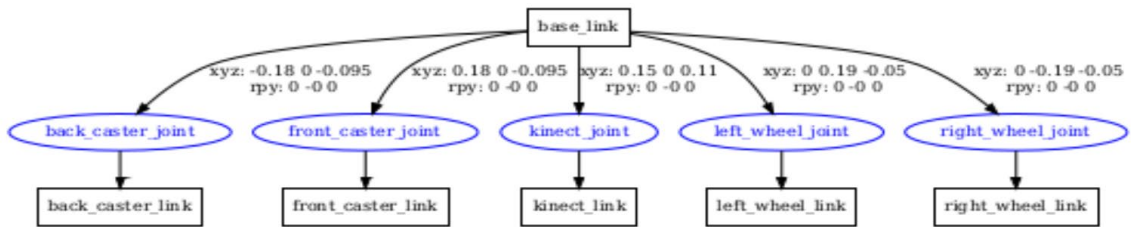


Figure 1

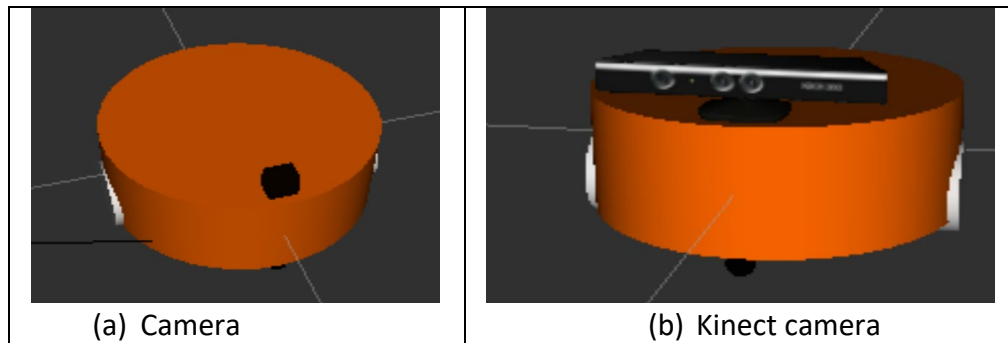


Figure 2