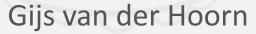
2.4

URDF: using an existing model



Getting the simulation ready

Tasks:

- ✓ Remove unneeded bins
- ✓ Move bin to turtlebot delivery station
- ✓ Add a pedestal
- ☐ Add the second robot



Steps

- 1. Import the model definition (xacro macro)
- 2. Add the model to the factory (instantiation)
- 3. Fixating it in place (joint)
- 4. Update orientation

GNU nano 2.2.6 File: hrwros ws/src/hrwros/hrwros support/urdf/hrwros.xacro <?xml version="1.0" ?> <robot name="hrwros" xmlns:xacro="http://www.ros.org/wiki/xacro"> <!-- robot system --> <xacro:include filename="\$(find hrwros support)/urdf/robot system/robot system.xacro"/> <!-- bins --> <xacro:include filename="\$(find hrwros support)/urdf/bin/bin.urdf.xacro"/> <xacro:bin urdf prefix="bin 1 "/> <!-- depth camera --> <xacro:include filename="\$(find hrwros support)/urdf/depth camera/depth camera.urdf.xacro"/> <xacro:depth camera urdf prefix="depth camera "/> <!-- break beam --> <xacro:include filename="\$(find hrwros support)/urdf/break beam/break beam.urdf.xacro"/> <xacro:break beam urdf prefix="break beam "/> <!-- workcell --> <xacro:include filename="\$(find hrwros support)/urdf/workcell/workcell.xacro"/> <!-- Joints --> <joint name="workcell to world" type="fixed"> <parent link="world" /> <child link="world interface" /> </joint> <!-- a break beam type sensor in the frame break beam frame --> <joint name="break beam joint" type="fixed"> <parent link="world" /> <child link="break beam world interface" /> </joint> <!-- a kinect camera in the frame kinect camera frame --> <joint name="camera link" type="fixed"> <parent link="world"/> <child link="depth camera world interface" /> </joint> <!-- a bin in the frame bin1 frame --> <joint name="bin 1 joint" type="fixed"> <parent link="world" /> <child link="bin 1 base link" /> <origin xyz="-8.0 -2.2 0.0" rpy="0 0 0" /> </joint> k name="pedestal"> <visual> <geometry> <box size="1 1 1" /> </geometry> </visual> </link> <joint name="pedestal joint" type="fixed"> <parent link="world" /> ^R Read File ^W Where Is ^0 WriteOut

[Read 63 lines] Prev Page ^V Next Page

^C Cur Pos ^T To Spell ^K Cut Text ^U UnCut Text

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Getting the simulation ready - done

Tasks completed:

- ✓ Remove unneeded bins
- ✓ Move bin to turtlebot delivery station
- ✓ Add a pedestal
- ✓ Add the second robot