

# Fusion 360 to ROS1/ROS2 URDF/Xacro conversion tutorial

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Fusion 360 downloader available in parent folder.  
Example of arm\_urdf also included in parent folder.

Fusion 360 educational access:

<https://www.autodesk.com/education/edu-software/overview?sorting=featured&filters=individual>



Github link for fusion360 to **ROS1** conversion:

<https://github.com/syuntoku14/fusion2urdf>

Github link for fusion360 to **ROS2** conversion:

<https://github.com/dheena2k2/fusion2urdf-ros2/tree/master>

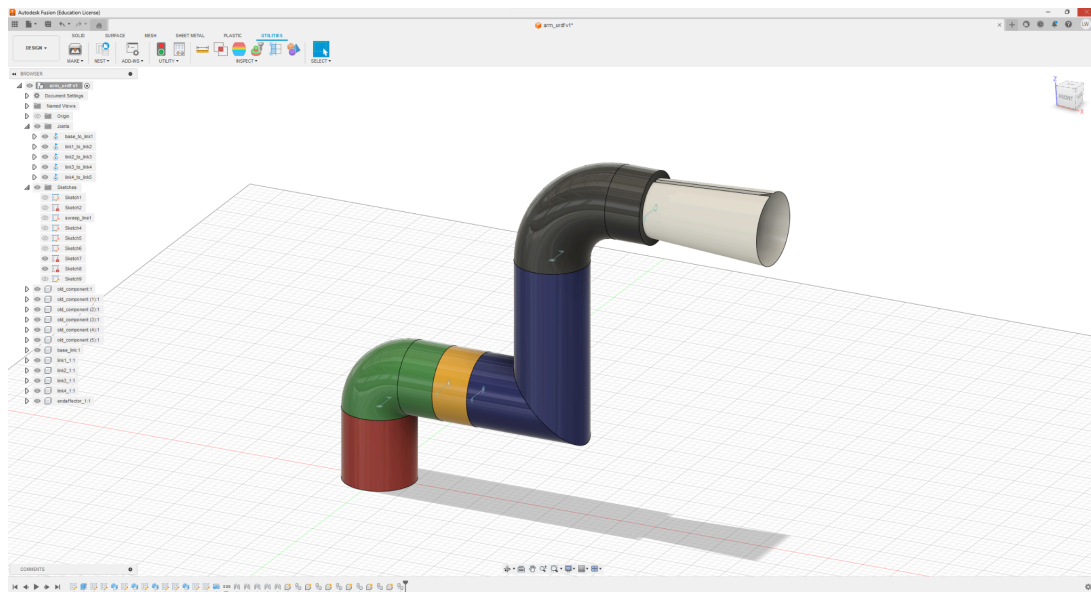
The YouTube guide that I used (there are many):

[https://www.youtube.com/watch?v=\\_ZFo6wPXjeQ&t=301s](https://www.youtube.com/watch?v=_ZFo6wPXjeQ&t=301s)

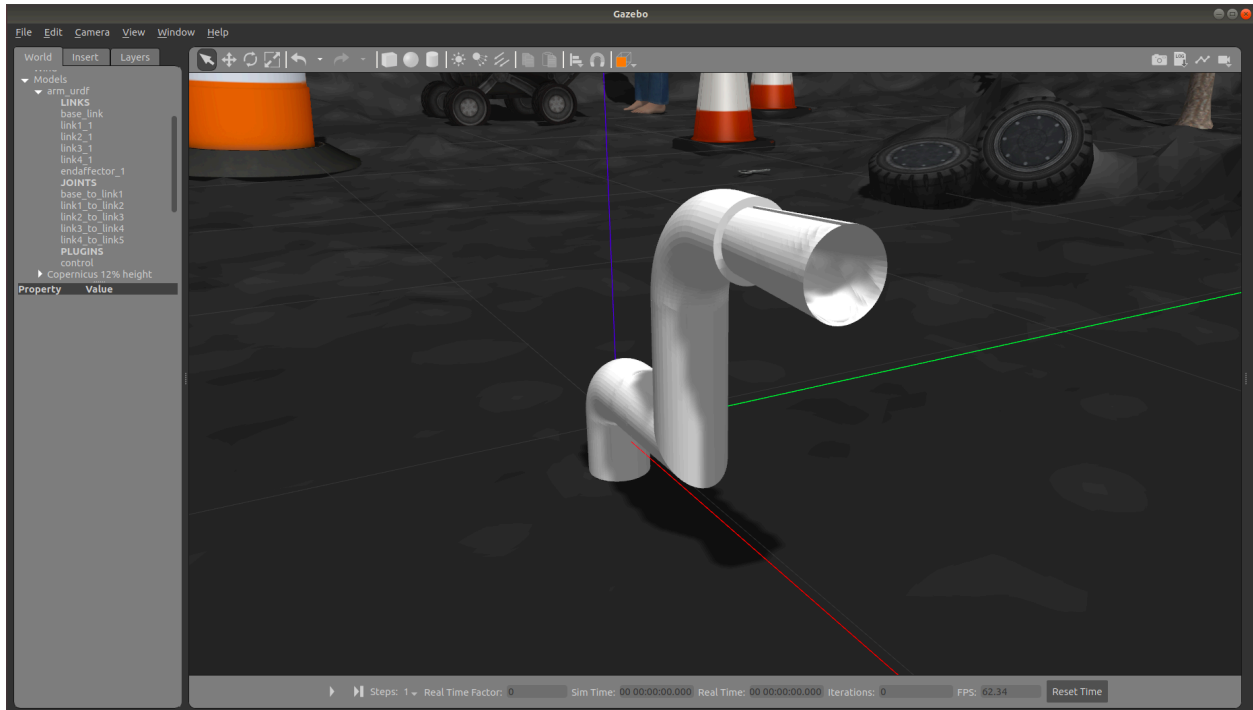
The URDF package + launch files + built catkin workspace:

[https://github.com/Lanceward410/arm1\\_ws](https://github.com/Lanceward410/arm1_ws)

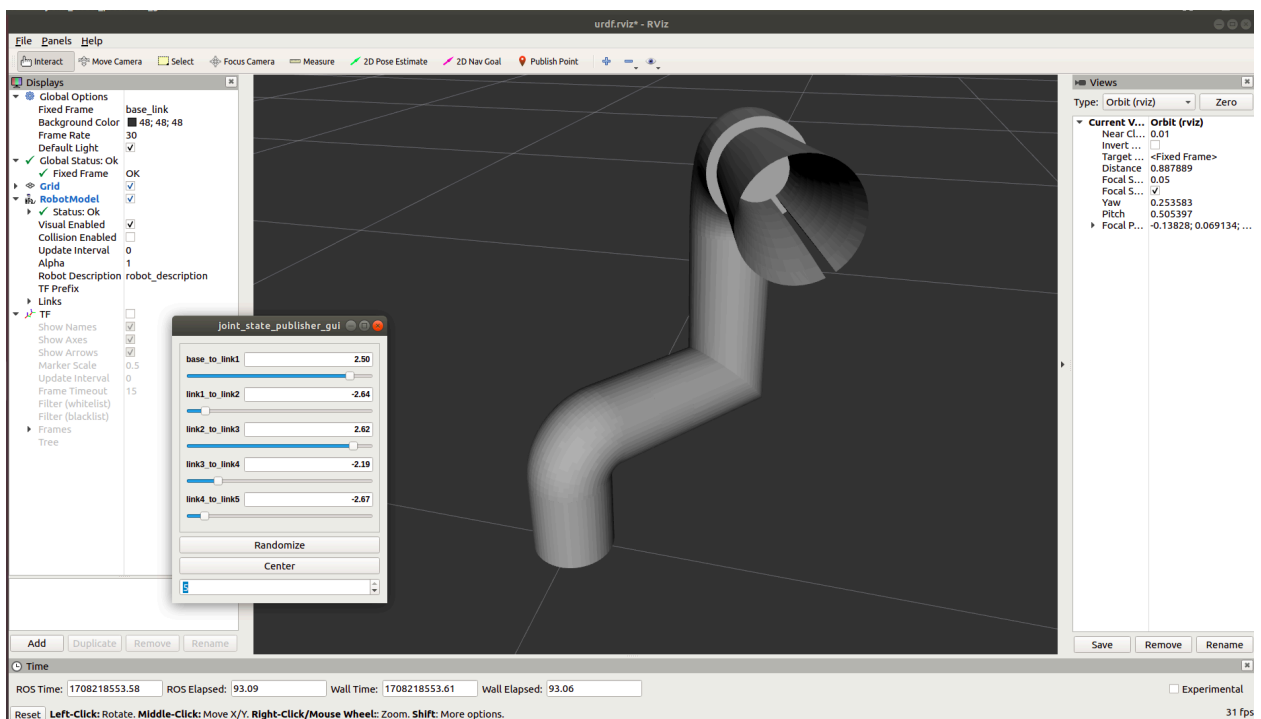
You do not have to copy the Github scripts into the Fusion 360 scripts path, instead you may go to “utilities” in Fusion 360, and add the path (source folder) for wherever your script is located.



arm\_urdf rendered in Fusion 360 (STL)



arm\_urdf rendered in Gazebo  
*roslaunch arm\_urdf\_description gazebo.launch*



arm\_urdf rendered in RVIZ along with joint state publisher  
*roslaunch arm\_urdf\_description display.launch*