2023.04.01 Working to create a urdf (+/- .xacro) file for the OSR. There's a CAD file of the original NASA/JPL OSR in OnShape as well as the proposed V2 of the OSR: https://cad.onshape.com/documents/5c358484057fc4c01d5e5803/w/bdf58 3acdf29d75695be5fbc/e/e3eb7193ecdec5b0a710978b My copy is here: https://cad.onshape.com/documents/8f8189d761f726bcf69980f5/w/ec57f c1702d5177d685a86c9/e/ccf42f743a831a145aea7c8a The main documentation for "OnShape-to-robot" conversion tool is here: https://onshape-to-robot.readthedocs.io/en/latest/ and the github is here with examples: https://github.com/Rhoban/onshape-to-robot It appears to require a Linux environment so will use the UbuntuBox. [per one of the tutorials it can also be installed in Windowsl There's a dull tutorial here: https://www.voutube.com/watch?v=0M2b1p6H20o a French accent tutorial here: https://www.youtube.com/watch?v=C8oK4uUmbRw a completely French tutorial here: https://www.youtube.com/watch?v=GeZZZH02w3Q a ROS Discourse here: https://discourse.ros.org/t/onshape-to-sdf-urdf-simulation/8547 a Hackaday tutorial here: https://hackaday.com/2021/02/28/onshape-to-robot-models-made-easie r/ a Reddit tutorial here:

https://www.reddit.com/r/robotics/comments/lrklf4/onshape to robot

tutorial export urdf sdf from/

2023.04.02

Following: https://www.youtube.com/watch?v=C8oK4uUmbRw

Get OnShape API keys:

https://dev-portal.onshape.com/keys/createkey

[Create new API key]

check all boxes

click: [Create API key]

API Key Secret

The API key's access key is QJZ2vl6e9hqj2fochaal2AWp and the secret key is kldFkz1sXGFMskEhvGfepKdiMY8rwDbwms6Xgm17lBz5ef0v Please transfer this securely to your application now as you will not be able to display this secret key string again.

Close

```
access key is QJZ2vl6e9hqj2fochaal2AWp
secret key is kldFkz1sXGFMskEhvGfepKdiMY8rwDbwms6Xgm17lBz5ef0v
```

Suggests create a 'keys' file with the keys and 'source' it: \$ nano OnShape_keys

export ONSHAPE APT=https://cad.onshape.com

export ONSHAPE_API=https://cad.onshape.com
export ONSHAPE_ACCESS_KEY=QJZ2vl6e9hqj2fochaal2AWp
export ONSHAPE_SECRET_KEY=<hidden key>

0R

can be included in your .bashrc file