

A close-up photograph of an industrial robot arm, likely an OTC model, featuring a white and blue body with a prominent orange safety cable. The background is a blurred industrial setting.

OMRON SINIC X Corporation

A new robot competitor

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2018/9/14 @ ROSCon JP

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Robotics, AI, Computer Vision, Manipulation

Journal & conference publications encouraged

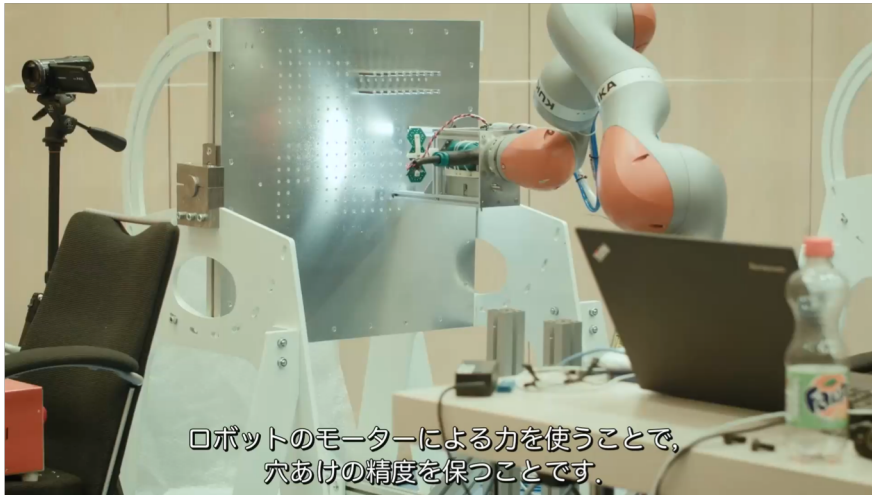
Opened April 2018

Next to UTokyo

<http://tinyurl.com/omronsinicx>



1. Past robot challenges



ロボットのモーターによる力を使うことで、
穴あけの精度を保つことです。

Airbus Shopfloor Challenge 2016
1st place



Amazon Robotics Challenge 2017
Finalist, 6th place

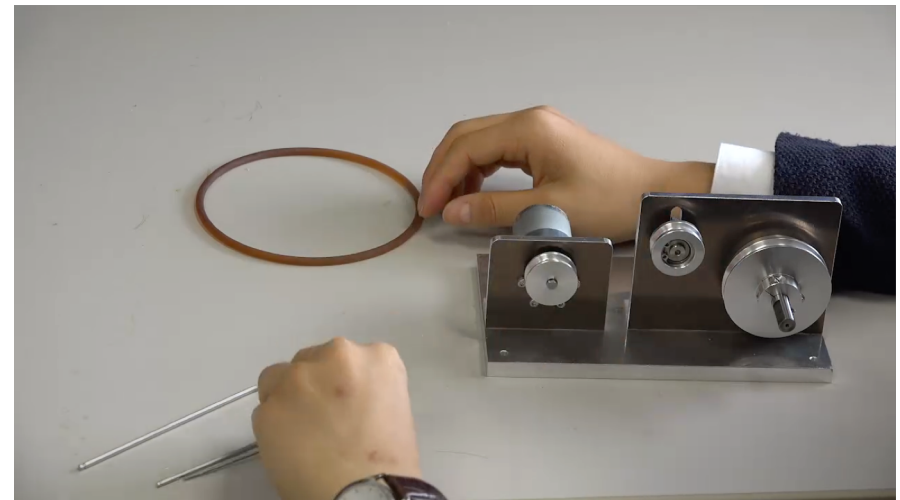
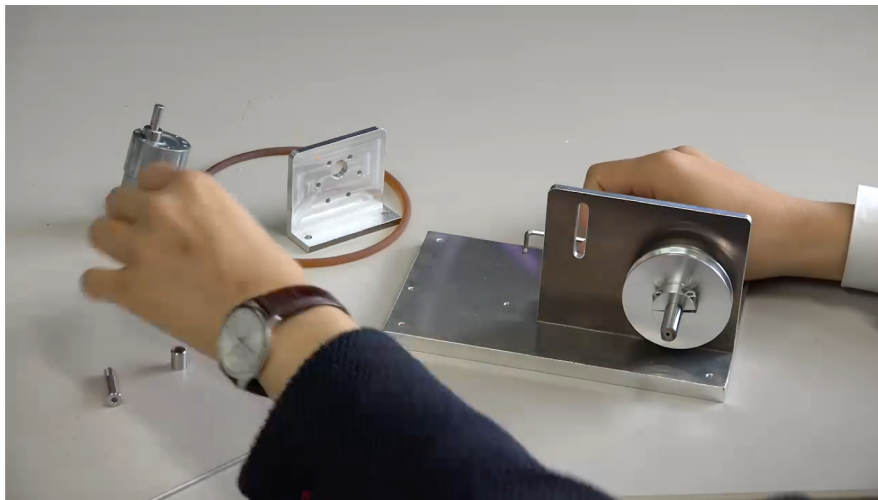
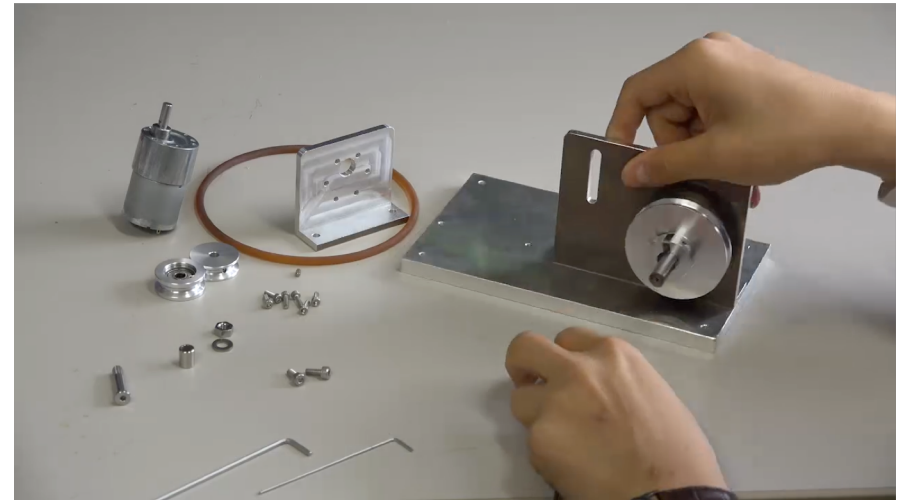
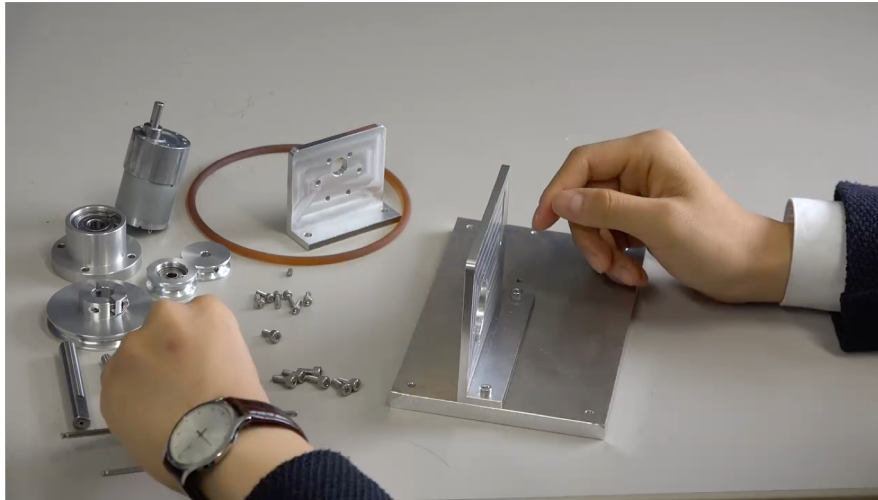


Stocking Task
Self-stocking of daily products (onigiri rice ball and bento lunch boxes, etc.)

Future Convenience Store Challenge Trials 2018
1st place

2. The next challenge

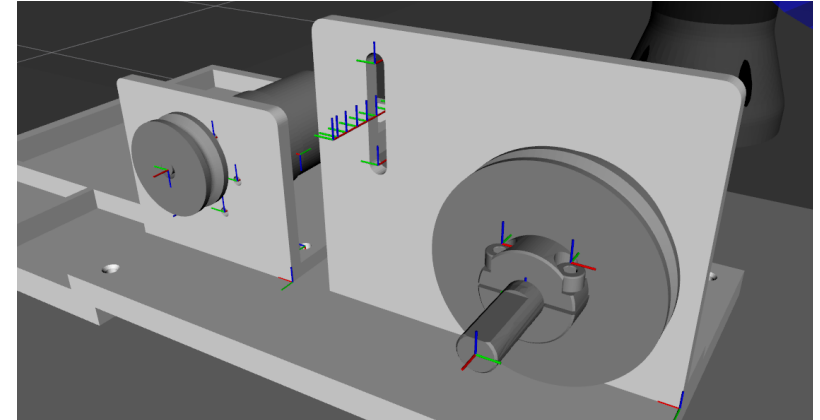
World Robot Summit 2018 – Assembly Challenge (October 17-21)



Team O2AS, including Osaka University and OMRON SINIC X

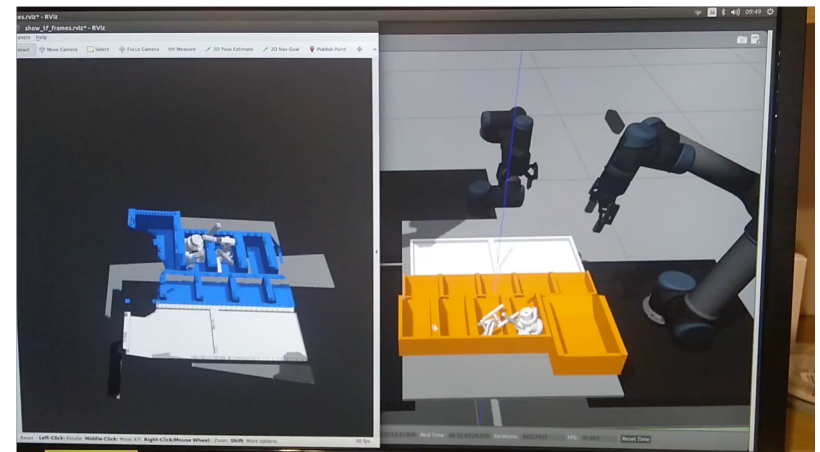
3. Solutions & contributions

1. ROS Assembly generator
 - Create complex TF trees
 - Parametrize manipulations



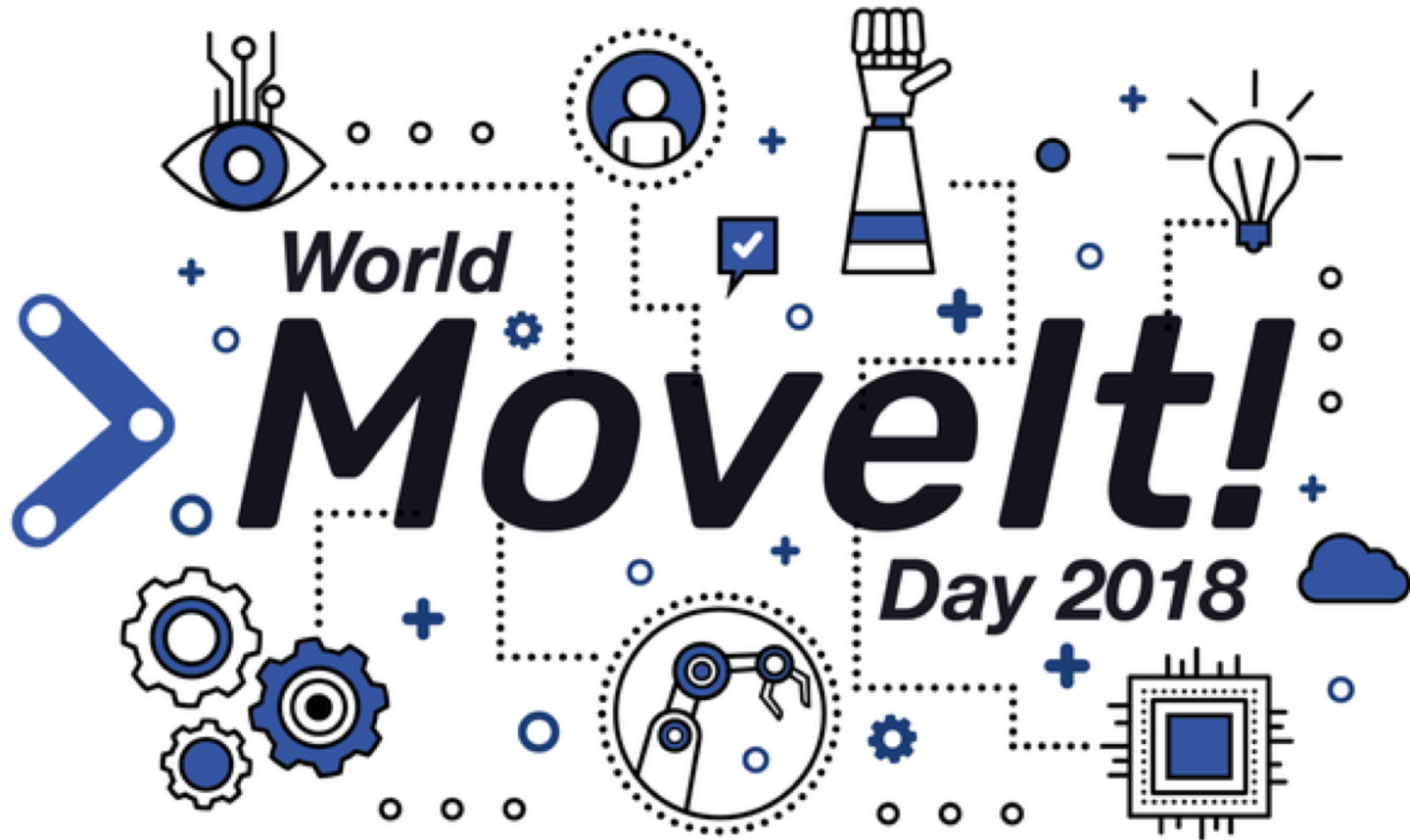
2. MoveIt extension (PR #1060)
 - Allow command “Position screw tip on hole”

3. Shared container-in-repository setup
 - Same system, multiple locations
 - To be released open-source



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We're sponsoring World MoveIt Day!
(October 26, Kashiwa (Tokyo))



Hosted by  Tokyo OpenSource Robotics Kyokai Association and [OMRON SINIC X Corporation](#)

We're hiring!

(Researchers, Engineers, Interns, Thesis projects)

Robotics, AI,
Computer Vision, Manipulation

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