

# Carnegie Mellon University The Robotics Institute, School of Computer Science

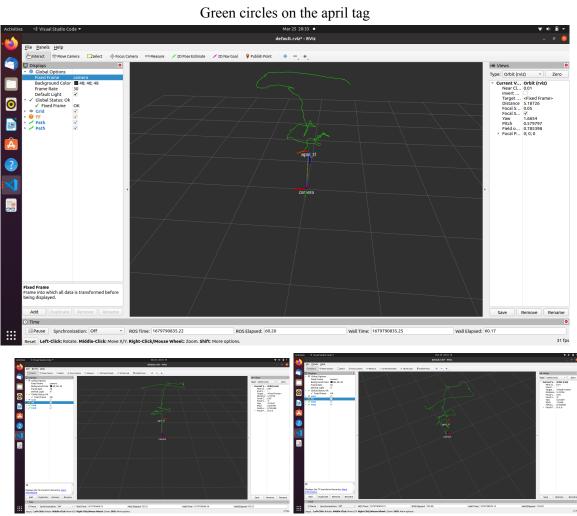
# **ROS Familiarization Part 2**

Shri Ishwaryaa S V

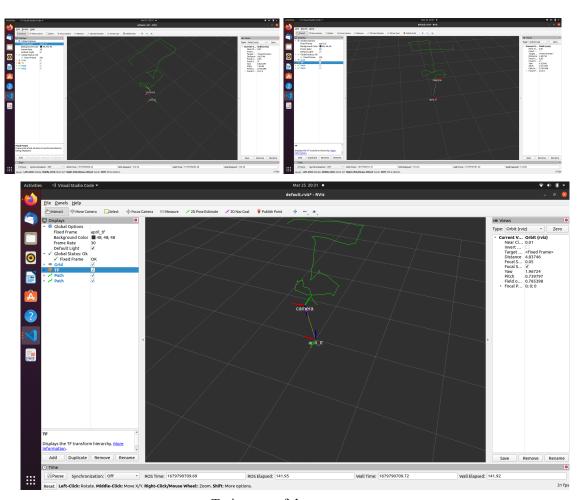
**MRSD Project Course I** 

### **Screenshots**





Trajectory of the april tag



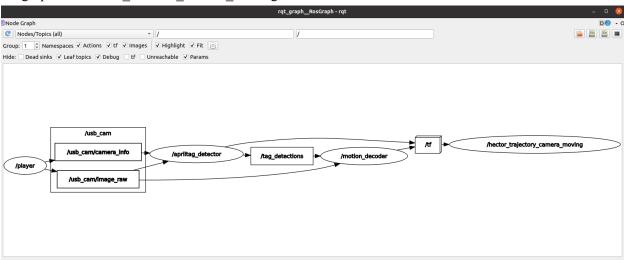
Trajectory of the camera

## Video Clip

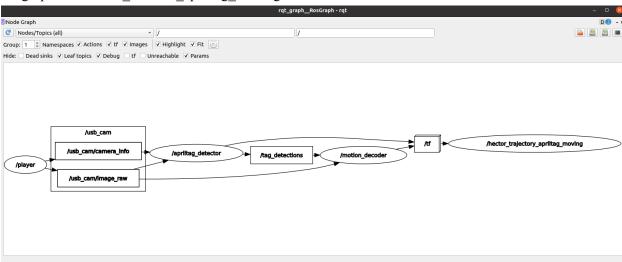
 $\underline{https://drive.google.com/file/d/118-mRrDHXXSTfAtOIHQsEI33m6LgXNWZ/view?usp=sharing}$ 

#### Part 4

1. Rosgraph for Motion decoder camera moving



Rosgraph for Motion decoder apriltag moving



- 2. If these packages need to be used in my project, we can assume that the April tags are on the peppers. The camera can then accurately calculate the pepper's pose. The motion decoder can pass this pose information to the manipulator arm which can then be actuated. We can also store the transforms between the peppers and the camera and visualize the path as we did in the assignment.
- 3. I think that the assignment was fun to implement. Being able to see the results after writing all the code was satisfying. As I knew nothing about using existing ROS packages before doing the assignment, I feel that I learned something new. In addition, I learned to read documentation, access topics and their information using the command line, and use RViz. The assignment was a little difficult but I could successfully implement it with my classmates' guidance.