In online SLAM, we used a drone's sensor readings as input to localize trees around it and itself. The red line is the intended path of the robot and the blue line is the actual trajectory. You can see there is some noise in robot motion. This is normal and our output shows that we have tuned the hyperparameter which estimates robot noise. Furthermore there is noise in robot sensing. We can see this with the black dots at the center of the green circles(trees). They are not exactly in the middle.

