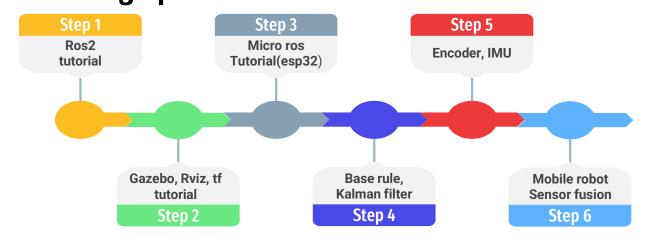
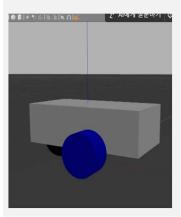
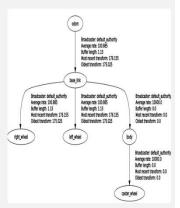
Timeline Infographics



Gazebo, tf

URDF 작성 및 실제 로봇과 Odometry를 통한 연동





Encoder pid control, IMU

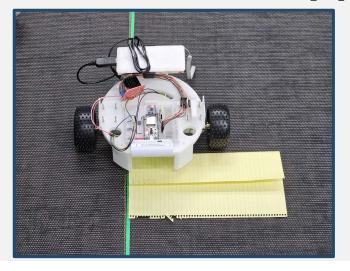
Motor PID Tuning

f(target w(t), measured w(t))

Sensor fusion test

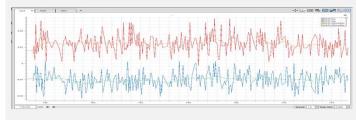
Encoder + IMU, EKF

state
$$X = \begin{bmatrix} x \\ y \\ th \end{bmatrix} u = \begin{bmatrix} Vel \\ Rad/s \end{bmatrix} z = \begin{bmatrix} x \\ y \\ th \end{bmatrix}$$



Encoder pid control, IMU

LPF(ax,ay)



Zero Velocity Update(ZUPT)

before

after

The state of the