cmake\_minimum\_required(VERSION 2.8.3)

project(turtlebot\_follower)

## Find catkin macros and libraries

find\_package(catkin REQUIRED COMPONENTS nodelet roscpp visualization\_msgs turtlebot\_msgs depth\_image\_proc dynamic\_reconfigure)

find\_package(Boost REQUIRED)

generate\_dynamic\_reconfigure\_options(cfg/Follower.cfg)

catkin\_package(

INCLUDE\_DIRS

LIBRARIES ${PROJECT\_NAME}

CATKIN\_DEPENDS nodelet roscpp visualization\_msgs turtlebot\_msgs depth\_image\_proc dynamic\_reconfigure

)

###########

## Build ##

###########

## Specify additional locations of header files

include\_directories(

include

${catkin\_INCLUDE\_DIRS}

${Boost\_INCLUDE\_DIRS}

)

## Declare a cpp library

add\_library(${PROJECT\_NAME} src/follower.cpp)

add\_dependencies(${PROJECT\_NAME}

${catkin\_EXPORTED\_TARGETS}

${PROJECT\_NAME}\_gencfg

${turtlebot\_msgs\_EXPORTED\_TARGETS}

)

## Specify libraries to link a library or executable target against

target\_link\_libraries(${PROJECT\_NAME}

${catkin\_LIBRARIES}

)

#############

## Install ##

#############

## Mark executables and/or libraries for installation

install(TARGETS ${PROJECT\_NAME}

ARCHIVE DESTINATION ${CATKIN\_PACKAGE\_LIB\_DESTINATION}

LIBRARY DESTINATION ${CATKIN\_PACKAGE\_LIB\_DESTINATION}

RUNTIME DESTINATION ${CATKIN\_PACKAGE\_BIN\_DESTINATION}

)

## Mark all other required files for installation

install(DIRECTORY launch

DESTINATION ${CATKIN\_PACKAGE\_SHARE\_DESTINATION}

)

install(DIRECTORY param

DESTINATION ${CATKIN\_PACKAGE\_SHARE\_DESTINATION}

)

install(DIRECTORY plugins

DESTINATION ${CATKIN\_PACKAGE\_SHARE\_DESTINATION}

)

## Mark executable scripts (Python etc.) for installation

## in contrast to setup.py, you can choose the destination

install(PROGRAMS

scripts/switch.py

DESTINATION ${CATKIN\_PACKAGE\_BIN\_DESTINATION}

)

#############

## Testing ##

#############

## Add gtest based cpp test target and link libraries

# catkin\_add\_gtest(${PROJECT\_NAME}-test test/test\_turtlebot\_follower.cpp)

# if(TARGET ${PROJECT\_NAME}-test)

# target\_link\_libraries(${PROJECT\_NAME}-test ${PROJECT\_NAME})

# endif()

## Add folders to be run by python nosetests

# catkin\_add\_nosetests(test)