

In this assignment, you will design an action server and action client for reactive mobile-robot control.

Use the STDR simulator for this assignment.

- start your lidar alarm node (built previously)

- start your action server (to be designed)

- start your action client (to be designed)

your action server should send commands to: robot0/cmd_vel

your lidar alarm should listen to the LIDAR topic: /robot0/laser_0

your action client should send multi-pose path commands to the action server

your action client should listen to the lidar alarm The behavior should be:

action server: accepts and executes path commands, provides feedback, halts robot upon goal completion or cancellation

action client: sends multi-step goals to action server (e.g. to move through the maze)

- monitors lidar alarm:

- if alarm, halts robot (cancels current goal), sends goal to rotate some amount

- resends a multi-step path goal

submit: report describing your solution approach; movie of your result; zipped up package with action server and action client code (or link to your code on github)