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Mobile Robotics Lab 4 writeup

Our video is available at: https://www.youtube.com/watch?v=mFdaNaQIUFc

our code can be found at: https://github.com/wnourse05/eecs476_alpha/tree/master/lab4alpha

We reused the lidar alarm code from lab2, and subscribe to it from the action server. We added a while loop at the end of each movement so that it doesn't start the next movement if the lidar alarm detects something.
We also modified the client from the homework assignment so that it would never cancel the goal according to the lidar alarm. We changed the client poses code so that it moves in a square motion while braking every 1/5th of a meter to allow for the server to check for the lidar alarm.