

EECS 476: PS2

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Very simple modifications were made for this assignment. Assigned a variable `ALARM_SCAN_WIDTH` that determines how many pings wide of an area should be searched for obstacles. The same logic from the example is used to determine the center ping. Then the upper and lower indices are set based on the alarm scan width.

Then those pings are examined. Any pings that are above the maximum range or less than the minimum range of the LIDAR sensor. Then the number of pings that have a distance less than the `MIN_SAFE_DISTANCE` are counted. If the percentage of pings in the "danger zone" is greater than the `ALARM_TRIP_PERCENTAGE` then the alarm is tripped and the Publisher reflects this change.