Overview:

1. Mask image to lower half to reduce saturation of sky
2. Denoise via median filtering
3. Normalize to stretch contrast
4. Gabor filtering
   1. Currently one spatial frequency empirically matched to lane markers
   2. Currently one phase
   3. 15 degree orientation steps with 90 degrees (horizontal) skipped
5. Normalize again
6. Threshold
   1. Adaptive thresholding with a median kernel of size 96
7. Erosion
   1. Disk of size 5
8. Probabilistic Hough line extraction
9. Slopes of lines
   1. Keep lines with slope > 0.5 and < 1.10 OR slopes < -0.65 and > -1.10
   2. Calculate distance to both corners and classify as “left” or “right” via minimum distance
   3. Calculate intersections of lines with edge of image
   4. Each side produces 0 to N possible intersections
10. Mean of intersections (no outlier removal) as final estimate