



### Additional Steps:

- "Merge" lines by concatenating the line segments from the threshold images and the line segments from only the blurring.
- "Purify" lines by deleting the extra segments that occur when a double edge is detected.
- "Connect" lines by grouping together segments by slope. If two adjacent segments have roughly the same slope, merge them by creating a new, longer line connecting their endpoints.
- "Extend" the longer lines by connecting their endpoints to the nearest corners. Corner detection algorithm is max Harris Corner Detector.
- "Cleanse" by removing lines that don't form polygons (antennas, accessory features). Determine this by iterating through corner points. If a pair of corner points are connected by a line, but they are not connected to any other corner, then this will be removed.