• Scan Logic
  o Address convention for reading from 1st ZBT and reading/writing to 2nd ZBT works.
  o Logic to read from 1st ZBT to create 6x3 and 8x5 windows for Harris and Sobel works.
  o Display module works.
  o 2nd ZBT set up properly

• Sobel Edge Detector
  o Properly calculates values as shown by “edge value” mode
  o Successfully convolutes 3x3 window of pixels with 3x3 gradient mask in the time domain.
  o Uses threshold to output black edges with a white background.
  o Also can use intensity of edge to output different levels of intensity depending on the edge.
  o Circular buffer of 6x3 local window of pixels works properly.
  o Calculates the likelihood that a pixel is an edge in batches of 4.

• Harris Corner Detector
  o Calculates 18 x and y pixel gradients per local window 8 x 5 window.
  o Pipelined using 4 stages to carry out calculation.
  o Finds corner value based on pixel gradients
  o Outputs whether a given pixel is a corner or not

• Histogram Equalizer
  o Properly increments counters for each CDF value
  o Makes CDF function for grayscale values in image
  o Makes look up table mapping old grayscale values to new ones

• System Integration
  o Merge edge detector and corner detector since they do redundant calculations
  o Have histogram equalizer feed equalized image into edge and corner detector