Project Plan:

* Image segmentation and identification of court lines and the ball
  + Adaptive thresholding (shadow removal, etc)
  + Deblurring of ball in motion (used for size/depth calculation)
* Geometric processing of the court features and ball
  + Estimation of the position and orientation of the camera, given the pixel coordinates of court features/lines
  + Model the position of the ball given its pixel coordinates, assuming a fixed lens is used during calibration
  + Estimation of ball distance-to-camera based on its apparent size
* Statistical post-processing
  + ball location under uncertainty