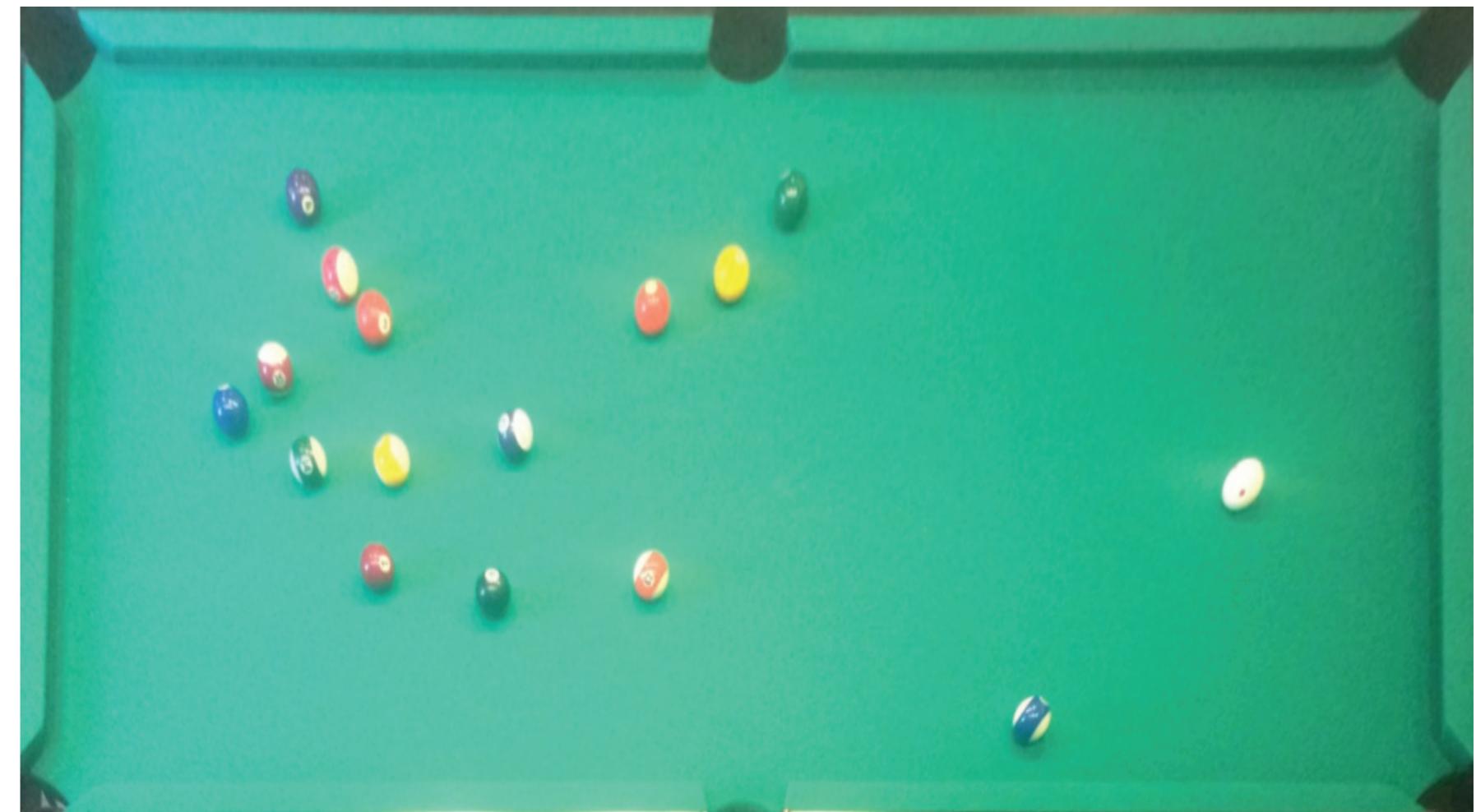
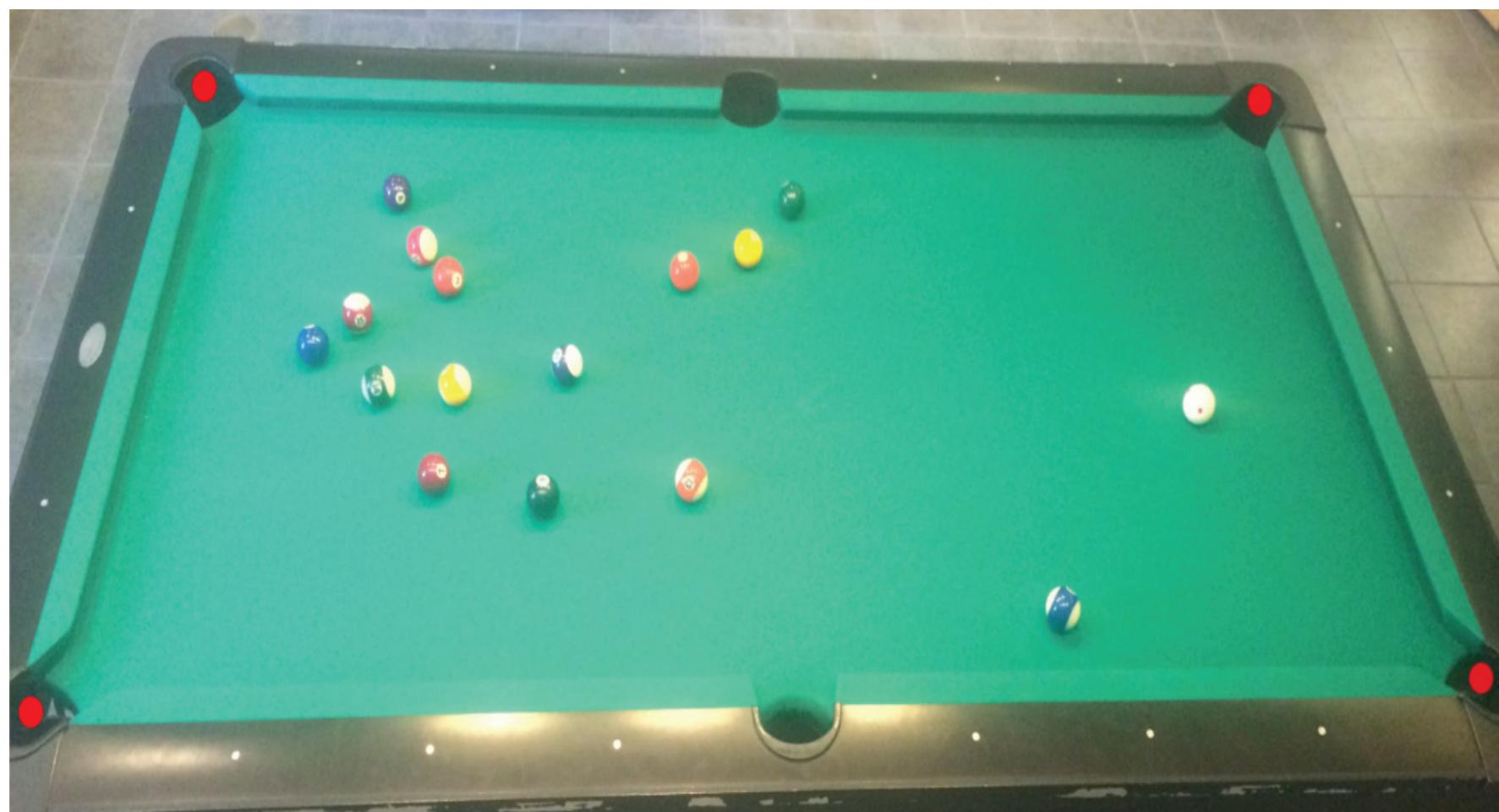


Pool Assistant

a digital guide to help you line up your shots

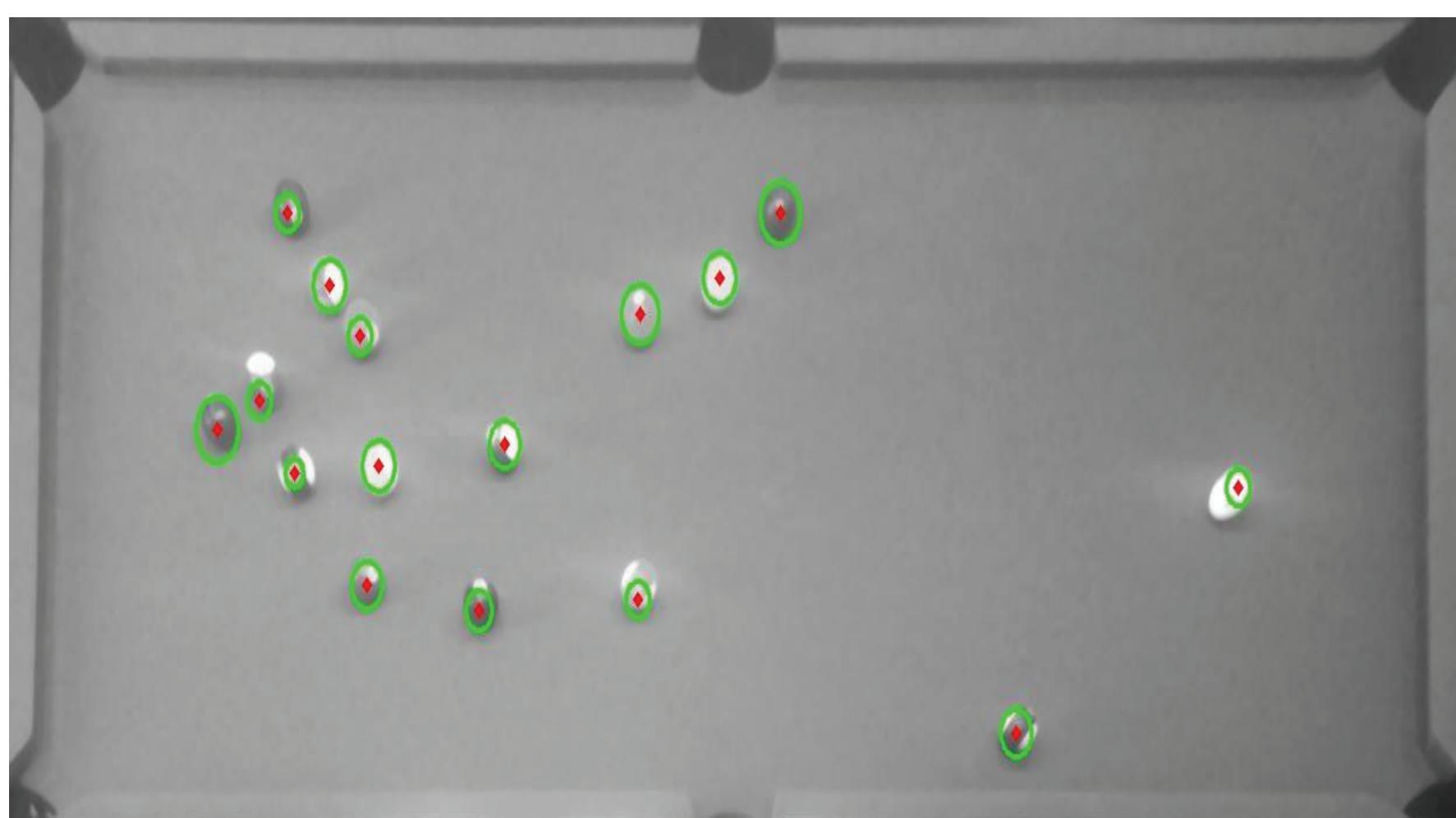
Andrew Pan
Bill Du
Jeremy Garcia
John Moreland

How it Works:



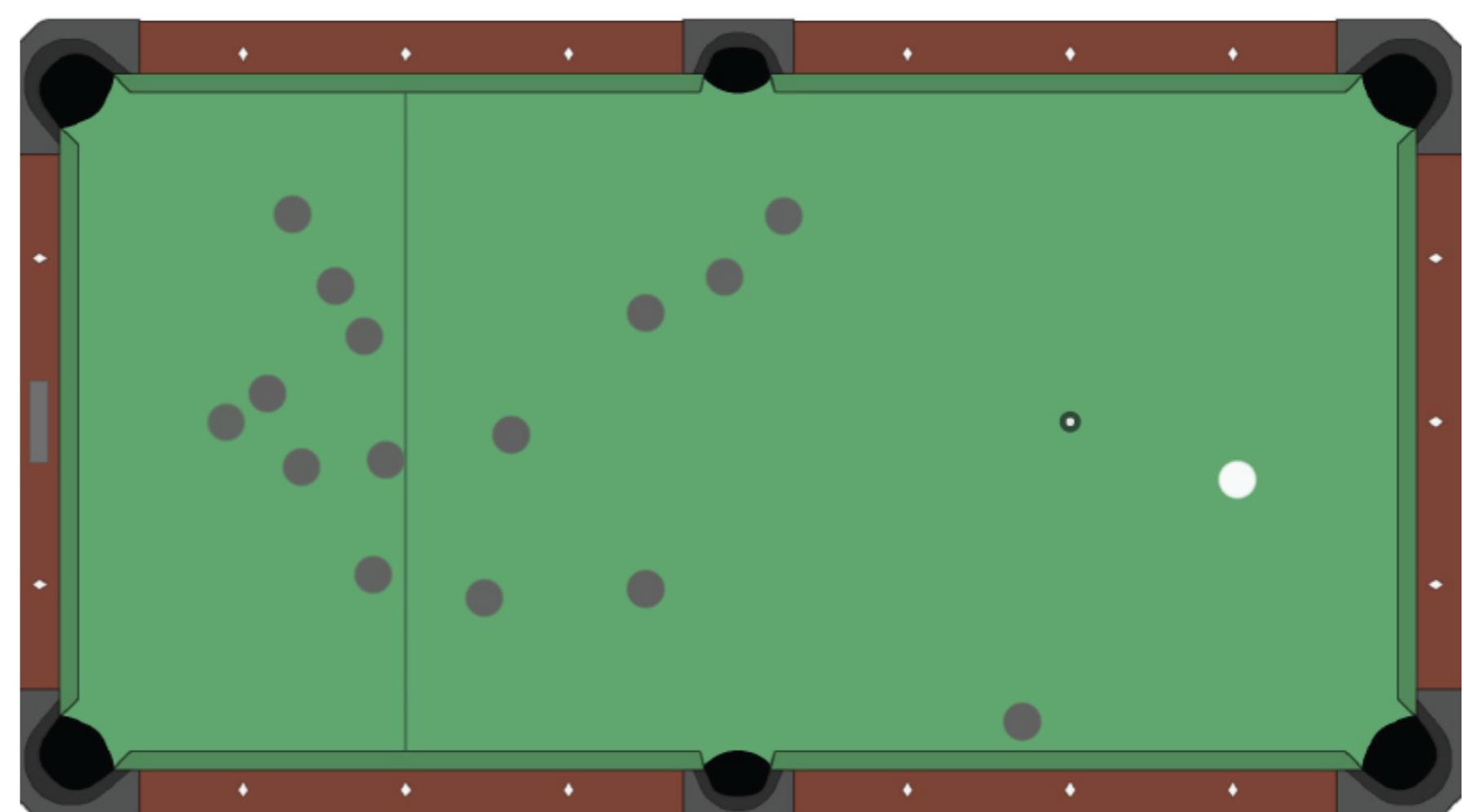
1. Calibration:

Click on the four corner pockets to calibrate - this helps the program adjust to various camera setups.



2. Transformation:

The program will process and transform the video input into a “simulated” overhead view.



3. Recognition:

The program will use object tracking to identify the position of each ball and the direction of the cue.

4. Simulation:

The program will calculate the shot and notify the user if their shot is lined up properly.

How We Did it

Packages:

numPy
Pygame
OpenCV

“People suck
at pool” - Doyung Lee
April 20, 2015

Project Timeline

