02/16/15 Monday

No significant progress.

02/17/15 Tuesday

Talked with Prof. Sable about the progress and problems. Prof. Sable suggested that I should skip edge detection and go straight to magnetic lasso. The open-source lasso that I am using now needs points as input and returns those closest to the lines that the user draws. Instead of this, what we need is a real-time lasso where points are attracted to the edges as the mouse pointer moves. This would require localized edge detection, so it might work better.

02/18/15 Wednesday

Discussed how we want our end product to look like. We decided that we will package everything in a MATLAB application since most software we are/planning on using is in MATLAB.

02/19/15 Thursday

Made more progress on BGS. Previously, I was only able to extract points that constitute the outer boundary of the object using lasso, but now, I can obtain points inside the object using a few tricks. However, these tricks depend on some parameters, and I am not sure if I can make this process general enough to make it functional for all kinds of images and objects. As seen in (1), this process is not robust enough for images with lesser-defined boundaries. Also, one big problem is that we are not keeping track of the center of the object, which is necessary for space carving. Need more work on this.

02/16/15 Friday

No significant progress.