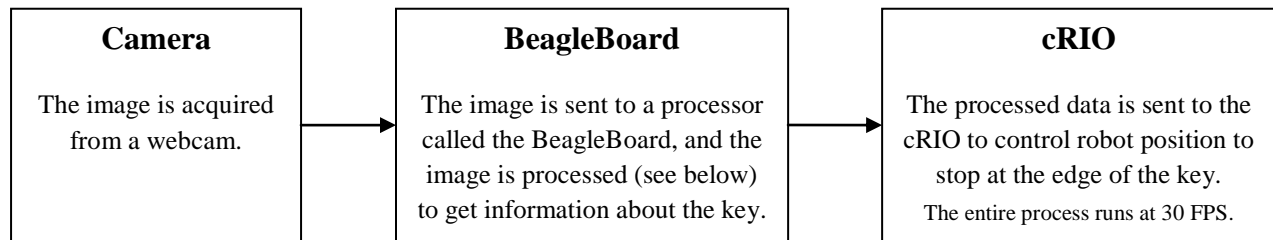
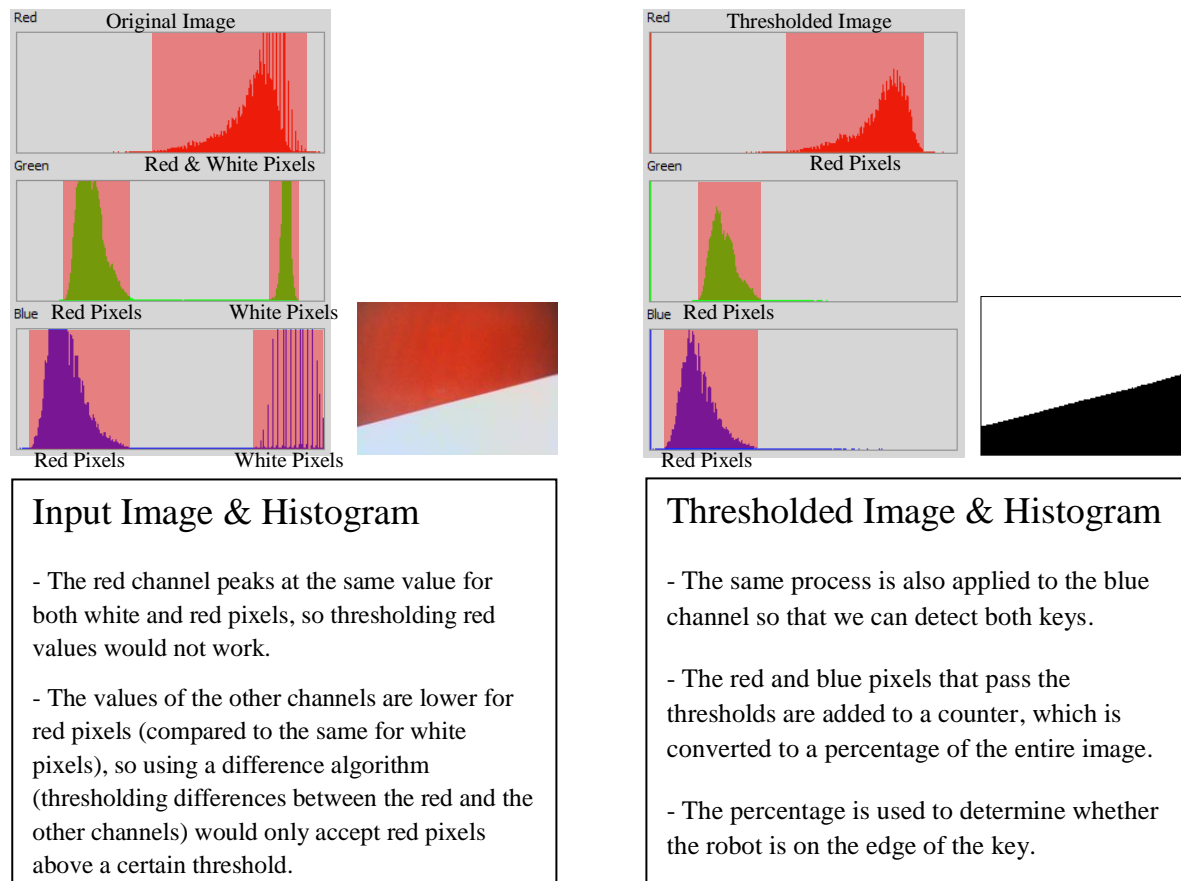


Key Detection and Positioning

Overall Process for Positioning on the Key



Detecting the Key



Lighting

Because the camera is mounted underneath our robot, bright lighting is needed to illuminate the surface of the carpet for the camera to be able to get a good quality image for processing.

We use a pair of white 7000mcd LEDs mounted next to the camera. They provide sufficient lighting for the camera to take well-illuminated images for accurate processing.

