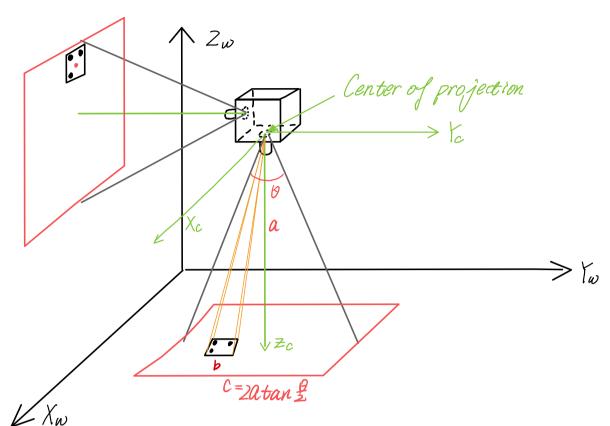
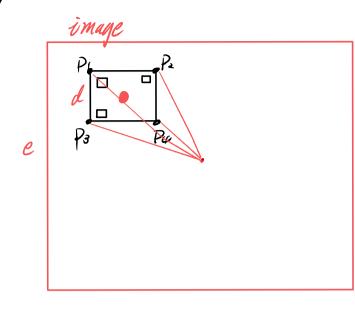
Localization Using QR Code

Assumption (2) OR code on the wall and the ground

(2) Camera's lone of sight is perpendicular to the ground and the wall





- (1) Distance from the center of projection is a, known by distance sensor.
- (2) Size of QR code is bxb
- (3) Size of BR cade in image is known dxd
- (4) Size of image is known exe

 $\frac{d}{e} = \frac{b}{2atanb} \Rightarrow \text{Coordinate of } P_1, P_2, P_3, P_4 \Rightarrow \text{Position of current carnera.} \Rightarrow \text{Position in world frame}$

