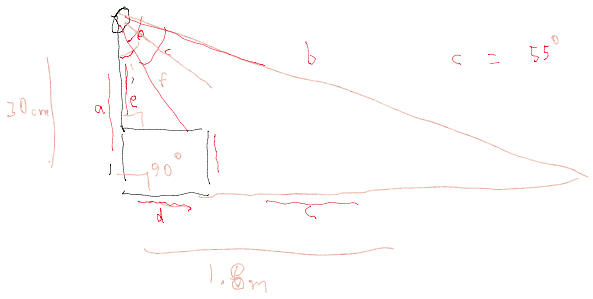
Camera mount

10 March 2020 09:34

The bit worth looking at:

aC = camera angle = 66.5452°



$\cos(ABC) = \frac{30^2 + 1800^2 - b^2}{2(30)(1800)}$

$b^2 = 30^2 + 1800^2 - 2(30)(1800)\cos(90)$

$= 3\,240\,900$

$b = \sqrt{b^2} = 1800.2500$

aC = camera angle = 66.5452°

aI = angle between robot and cam view

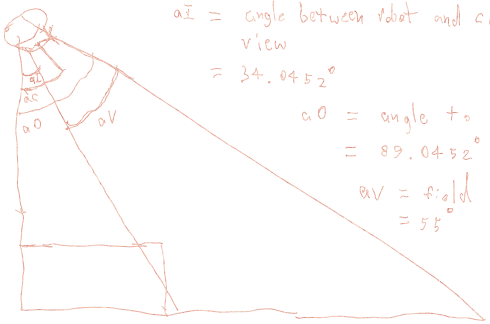
= 34.0452°

aO = angle to out

= 89.0452°

aV = field of

= 55°



Mount should allow camera to point at 66.6° angle from ground

V = where robot enters field of view

= 13.5131 cm