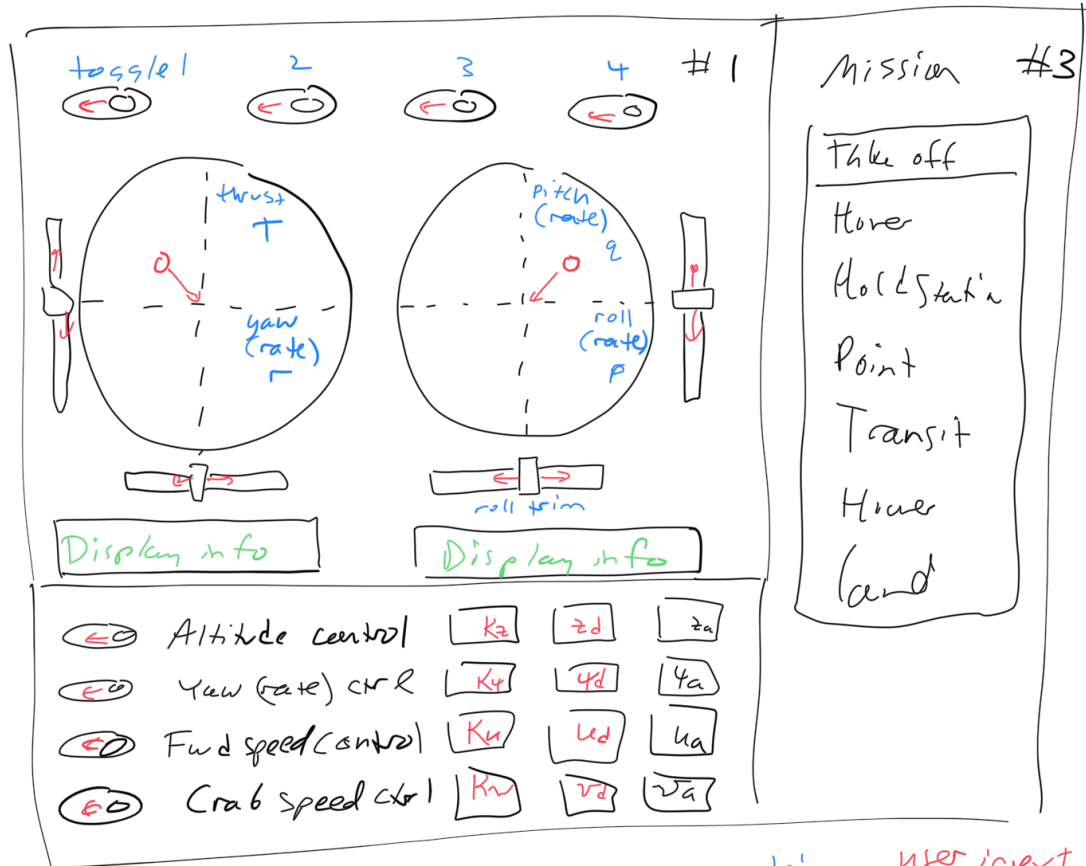


AMAV GUI



$$\begin{aligned}
 \dot{x} &= u \cos \theta \\
 \dot{y} &= v \cos \phi \\
 \dot{z} &= -T \cos \theta \cos \phi \\
 \dot{\psi} &= r \\
 \dot{u} &= T \sin \theta \\
 \dot{v} &= T \sin \phi
 \end{aligned}$$

$T = T_0 + \Delta T$
 $r = r_0 + \Delta r$
 $p = p_0 + \Delta p$
 $q = q_0 + \Delta q$

go to transmitter
 $K_y (\psi_d - \psi_a) - r_0 = \Delta r$
 from GUI from ROS (compass)

$$\hookrightarrow (kt - (T_0 + \Delta t) \cos \theta_a \cos \phi_a) = \sqrt{z} (z_d - z_a)$$

$$\Rightarrow \Delta T = \frac{-K_T (z_d - z_a)}{\cos \theta_a \cos \phi_a}$$