Position and Attitude Response of Model A.2 Compared to A.1 and PID Model A.1 failed at 5.20 seconds. Model A.2 failed at 3.68 seconds. z_{ref} z_{PID} 15.0 $z_{RL,A.1}$ [m]x Position [m] y Position [m] $z_{RL,A.2}$ 12.5Position 10.0 x_{ref} y_{ref} -65.0 x_{PID} y_{PID} -20 $x_{RL,A.1}$ $y_{RL,A.1}$ -82.5 $x_{RL,A.2}$ $y_{RL,A.2}$ 0.0-10-252 8 10 2 6 8 10 2 10 80 θ_{PID} ψ_{PID} ϕ_{PID} $\theta_{RL,A.1}$ 60 $\phi_{RL,A.1}$ 60 $\psi_{RL,A.1}$ $\theta_{RL,A.2}$ $\phi_{RL,A.2}$, $\psi_{RL,A.2}$) 40 [degree]Angle [degree] Angle [degree] 20 Angle | Φ Ş θ -40-60-60-60-80-80-8010 2 10 2 10 2 Time [s] Time [s] Time [s]