1 ash Space Juverse Dynamics We have a 6-DOF Robot Let p = [position] = [pos] p = [v] = [pos] [ouientation] = [position] = [pos] p = [v] = [pos]P-Pa P-Pa P-Pa-Pa P = P - P = Jg + Jg $\tilde{p} + K_d \tilde{p} + K_p \tilde{p} = 0$  (1) From Sponze:  $a_{g} = y^{-1} [fa_{x}]$  if g = outer-loopwhere  $a_{x} = x = pos$   $a_{w} = a_{w}$   $a_{w} =$ Clx => equation 1 X + X X = 0 - tark space tracking X + X X = 0 - evror scalisties this equation  $a_{\alpha}$   $y^{-1}$   $a_{x}$   $a_{y}$   $a_{$ A obtained From brajectory

