Target Nel. -T = Responce time $\begin{bmatrix} \dot{\lambda} \\ \dot{\nu} \end{bmatrix} = \begin{bmatrix} -1/2 & 0 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} \dot{\nu} \\ \nu \end{bmatrix} + \begin{bmatrix} \dot{\nu} \\ 0 \end{bmatrix} a$ Rel rel our vel It Distancexz time between, target wel (...) { samples. if (distance=good) { adjust speed to lead Car speed Belse & adjust speed to be in sole distane? I Sale distance deputs on our breaking time data and lead car speed.

Assumptions: No laderal momement · Low relocities. · No acc. on mil scale