Target
$$\mathbf{q}_{k}^{[\ell]} = [x_{k}^{[\ell]}, y_{k}^{[\ell]}]^{T}$$

$$\mathbf{e}_{k}^{T} = [x_{k}^{[\ell]} - x_{k} - d\cos\theta_{k}', y_{k}^{[\ell]} - y_{k} - d\sin\theta_{k}', \theta_{k}' - \theta_{k}]$$

$$\mathbf{q}_{k} = [x_{k}, y_{k}, \theta_{k}]^{T}$$