$$
\begin{aligned}
& \theta_{2}=\cos ^{-1}\left(\frac{p_{z}^{2}+p_{x}^{2}-l_{1}^{2}-l_{2}^{2}}{2 l_{1} l_{2}}\right) \\
& \theta_{1}=\frac{-p_{z} l_{2} \sin \left(\theta_{2}\right)+p_{x}\left(l_{1}+l_{2} \cos \left(\theta_{2}\right)\right)}{p_{x} l_{2} \sin \left(\theta_{2}\right)+p_{z}\left(l_{1}+l_{2} \cos \left(\theta_{2}\right)\right)}
\end{aligned}
$$

