

## Problem

The RRRP robot is shown in its zero position.

- Find the forward kinematics of the manipulator below. (1 point)
- Determine the D-H parameters. Be careful about calculating the common normal! (0.5 point)
- Suppose  $L_1 = 1m$ . Find the joint variables  $\theta_1, d_2$  in order to grasp an object located with coordinates  $(1.73, 0, 0)$  in  $\{B\}$  frame. (0.5 point)

