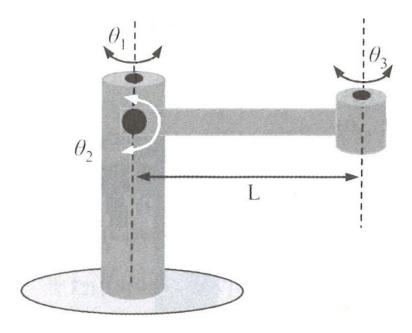
Forward and Inverse Kinematics exercise:

The robot shown in the figure below has three revolute joints.



- a. Find the DH parameters
- b. Find the homogeneous transformation matrices that connect each joint to its previous
- c. Find the solution of the inverse kinematics. i.e. given the orientation and position of the tip of the robot,

$$T_{03} = \begin{bmatrix} n & o & a & p \end{bmatrix} = \begin{bmatrix} n_x & o_x & a_x & p_x \\ n_y & o_y & a_y & p_y \\ n_z & o_z & a_z & p_z \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

find the expression of the joint variables in relation to the elements of matrix T_{03} as well as the parameters of the robot.