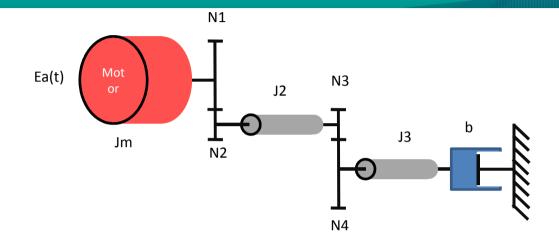
## Assignment 1: System Modelling



Consider a robotic arm with 2 articulations powered by a motor as in figure above. It is used to position a work piece in a manufacturing line. Draw the block diagram of the system.

Find 
$$G_1(s)$$
 which is  $\frac{\theta_3(s)}{E_a(s)}$ .  
Find  $G_2(s)$  which is  $\frac{\theta_m(s)}{E_a(s)}$ .

10 Marks

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