

THE MINISTRY OF SCIENCE AND HIGHER EDUCATION  
OF THE RUSSIAN FEDERATION

ITMO University  
(ITMO)

Faculty of Control Systems and Robotics

Report of 3rd lab  
for the subject  
*“Simulation of Robotic Systems”*

Student:

*Group R4136c*

*Хюонь Тан Куонг*

Tutor:

*Инженер*

*Ракиин Е.А.*

Saint Petersburg 2025

## **CONTENTS**

1	PROBLEM .....	3
2	SOLUTION.....	4
3	RESULT .....	5

# 1 PROBLEM

In this work, we have to create a model of 2 planar connected using tendon.

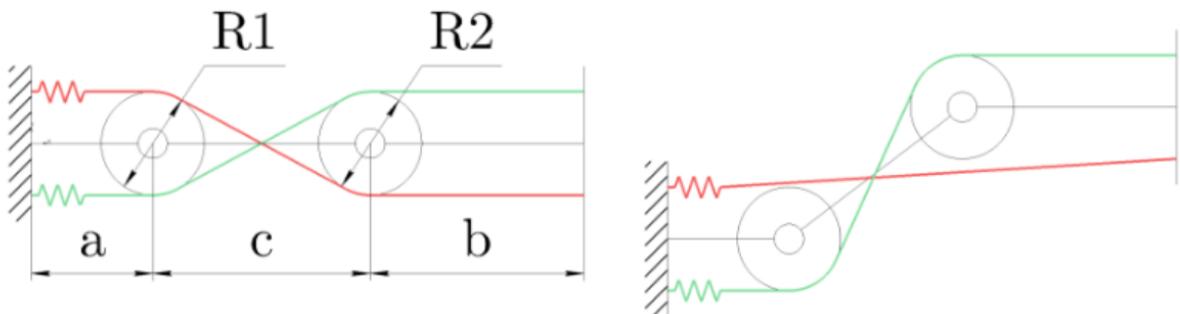


Figure 1 — Schema from the task

My variant for the problem is shown below:

R1	R2	a	b	c
0.021	0.017	0.045	0.099	0.043

Table 1 — System parameters

## **2 SOLUTION**

The model can be viewed in the included XML file

### 3 RESULT

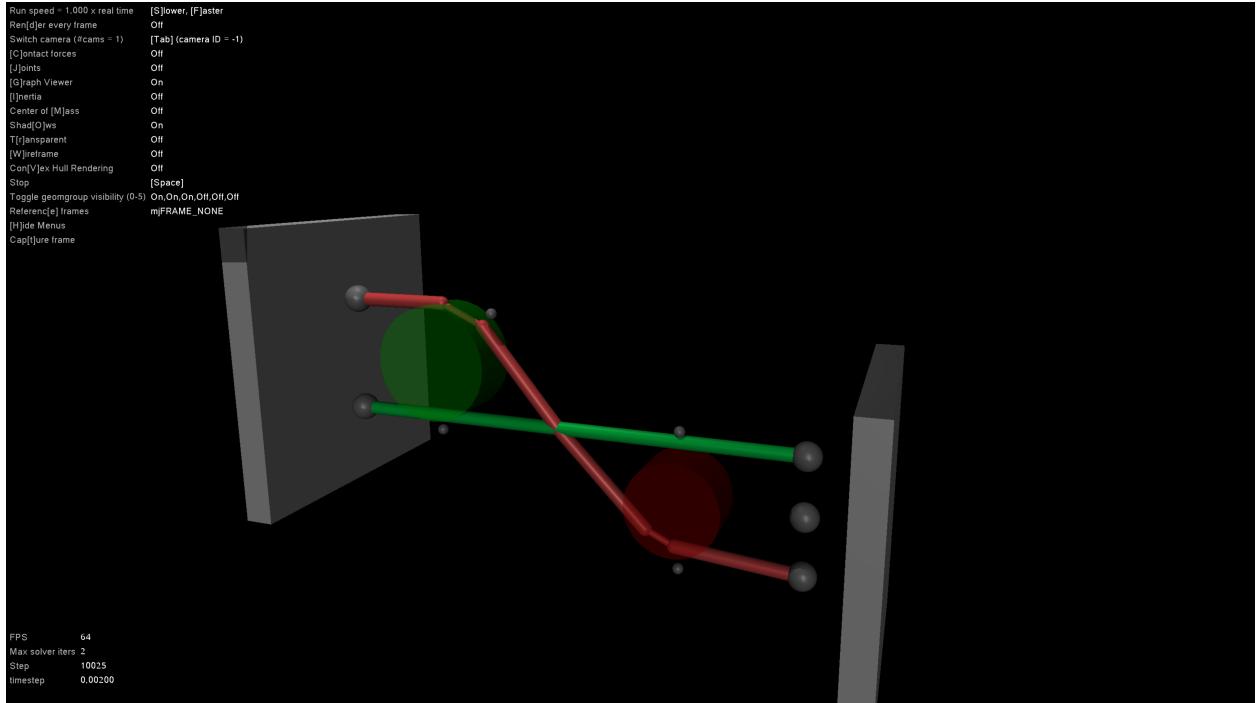


Figure 2

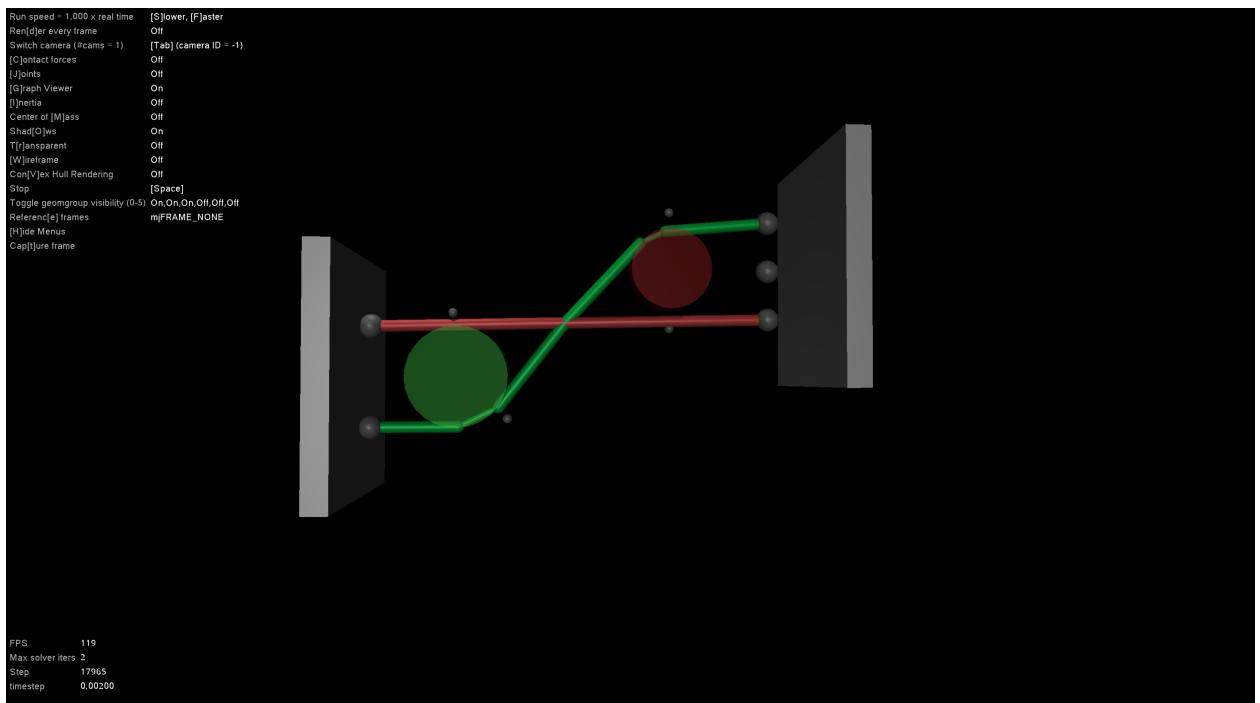


Figure 3

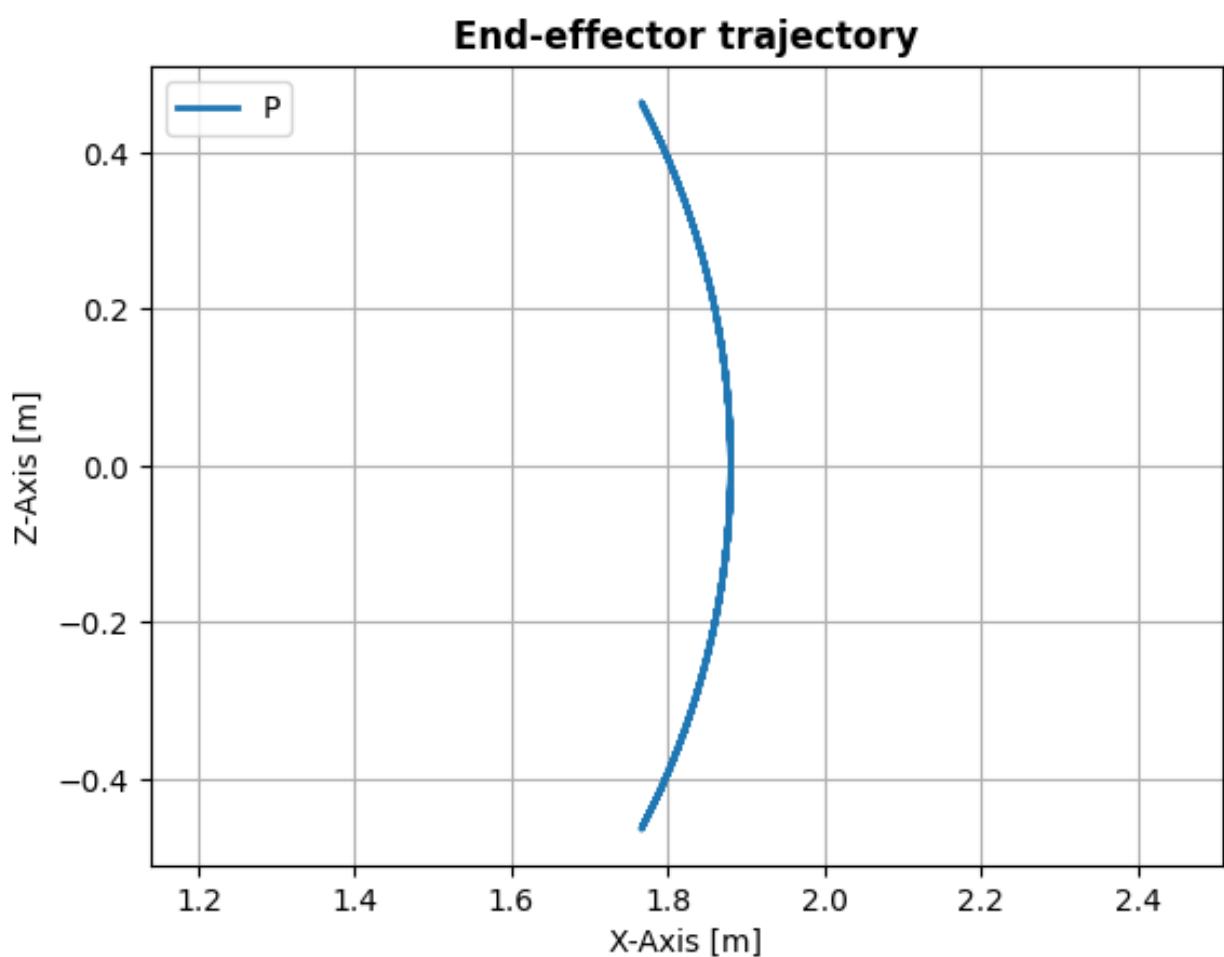


Figure 4 — Trajectory of the effector