

Input_parameter

Theta1 [-125,125] degree	<input type="text"/>	<input type="text"/>	-2.521
Theta2 [-145,145] degree	<input type="text"/>	<input type="text"/>	70.0154
d3 [0,150] mm	<input type="text"/>	<input type="text"/>	0
Theta4 [-360,360] degree	<input type="text"/>	<input type="text"/>	0

End_effector_position (mm)

	Present	Desire
X (mm)	602.674	450
Y (mm)	349.743	-400
Z (mm)	443	350
Yaw (deg)	67.494	50

DH_para(mm)

a1	450
a2	400
d1	363
d2	80
<input type="button" value="Update"/>	

Kinematics

Velocity rate

View_option

☐ Coordination

☒ View Work Space

Opacity

Velocity and acceleration

q_max

v_max

a_max

mm

mm/s

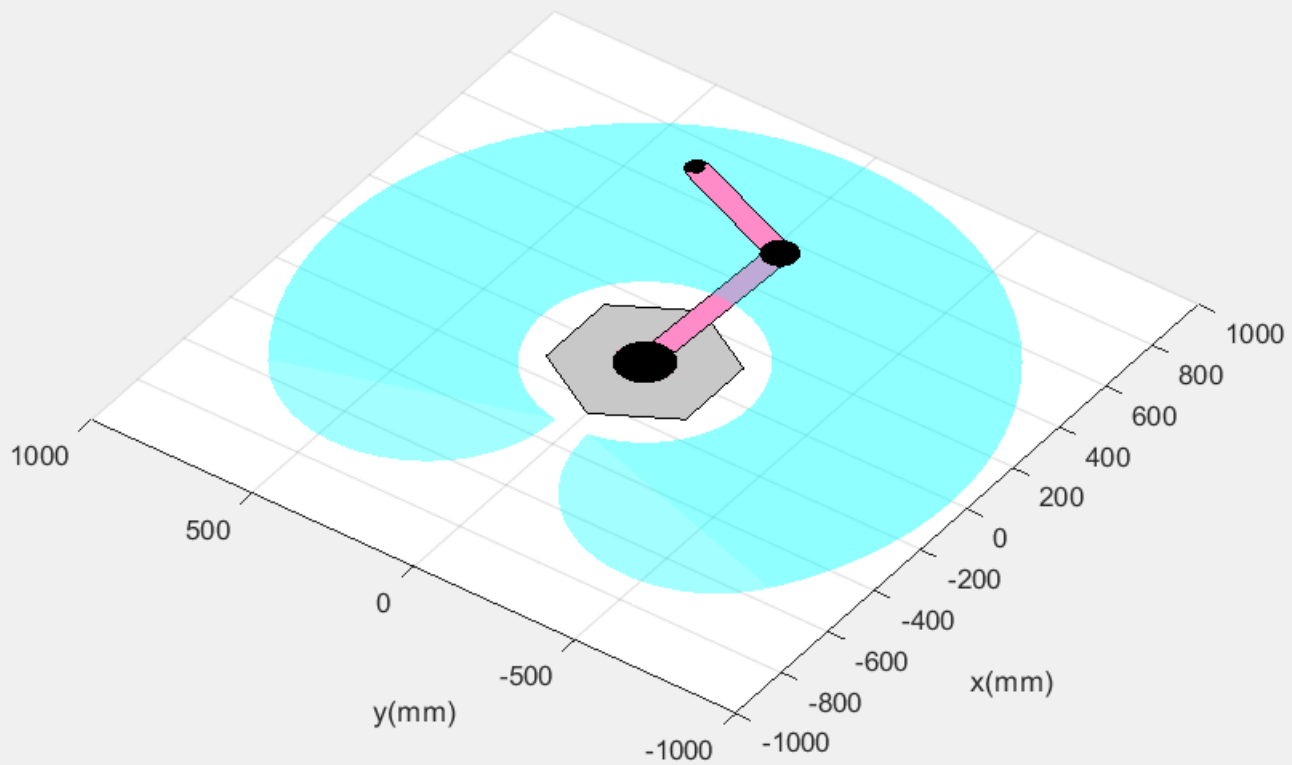
mm/s^2

Trajectory

☐ Trapezoidal

☐ S_curve

Path



Input_parameter

Theta1
[-125,125] degree

Theta2
[-145,145] degree

d3
[0,150] mm

Theta4
[-360,360] degree

End_effector_position (mm)

	Present	Desire
X (mm)	602.674	450
Y (mm)	349.743	-400
Z (mm)	443	350
Yaw (deg)	67.494	50

DH_para(mm)

a1 550

a2 400

d1 363

d2 80

Update

Velocity and acceleration

q_max v_max a_max

mm mm/s mm/s^2

55 35

Trajectory Path

☐ Trapezoidal ☐ S_curve

Linear_Interpolation

PLOT

Kinematics

Forward_Kinematics

Velocity rate

1

Inverse_Kinematics

View_option

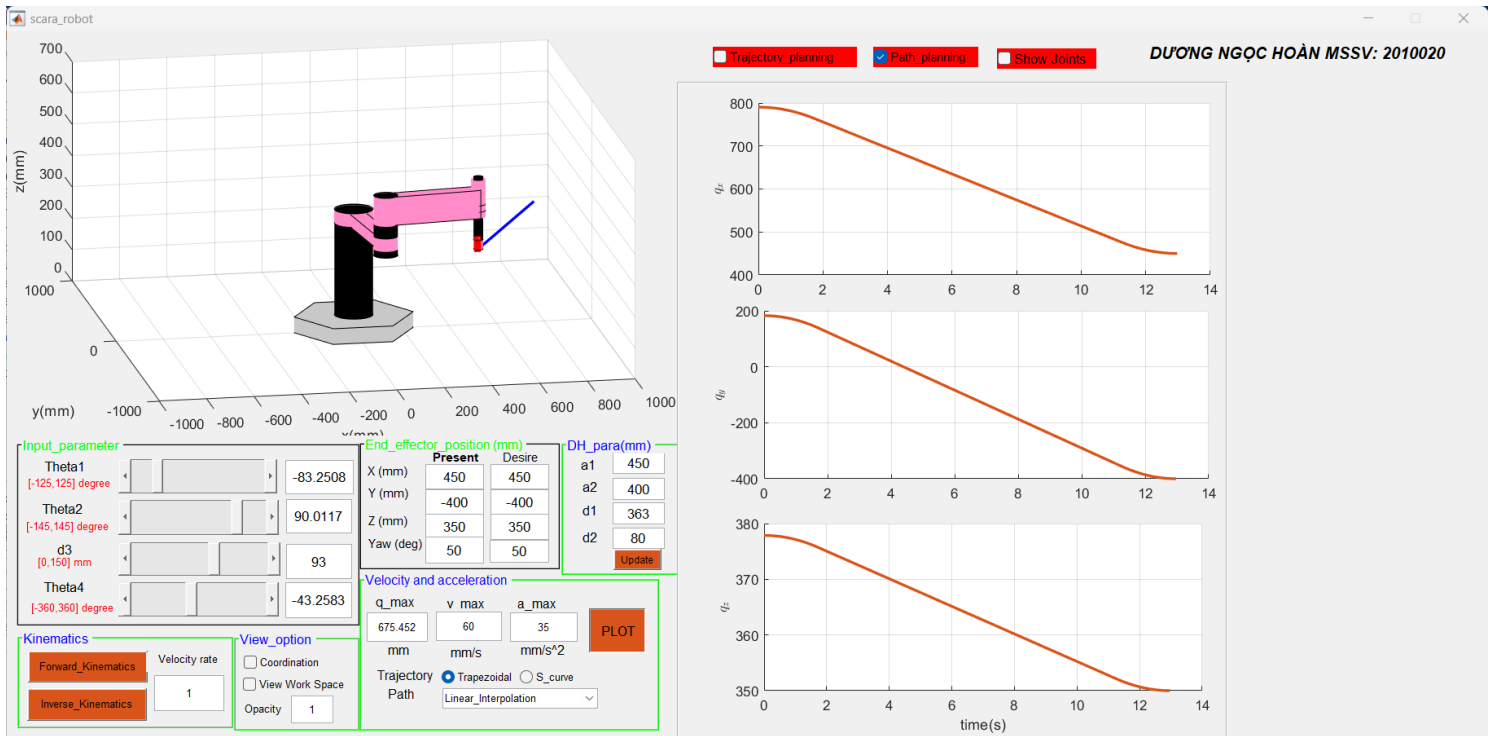
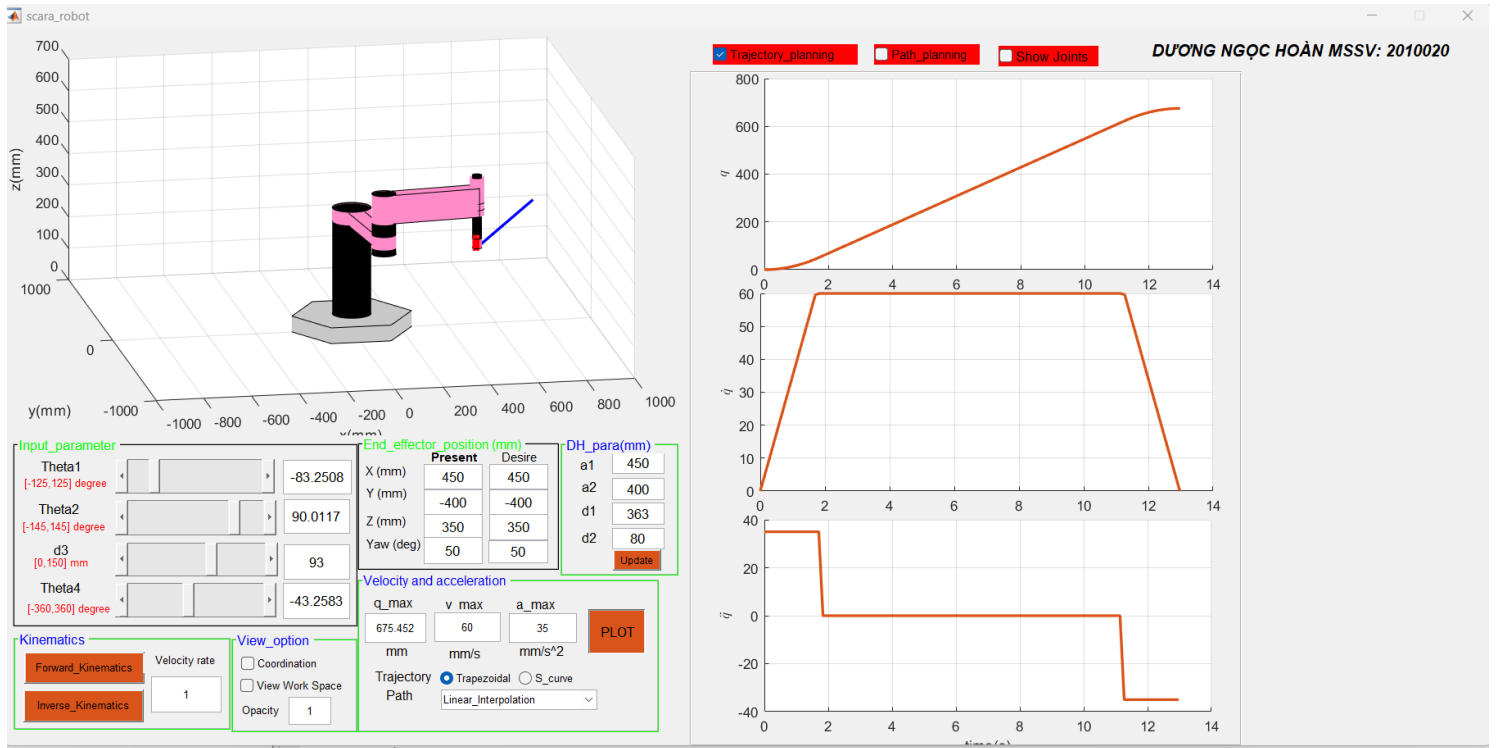
☐ Coordination

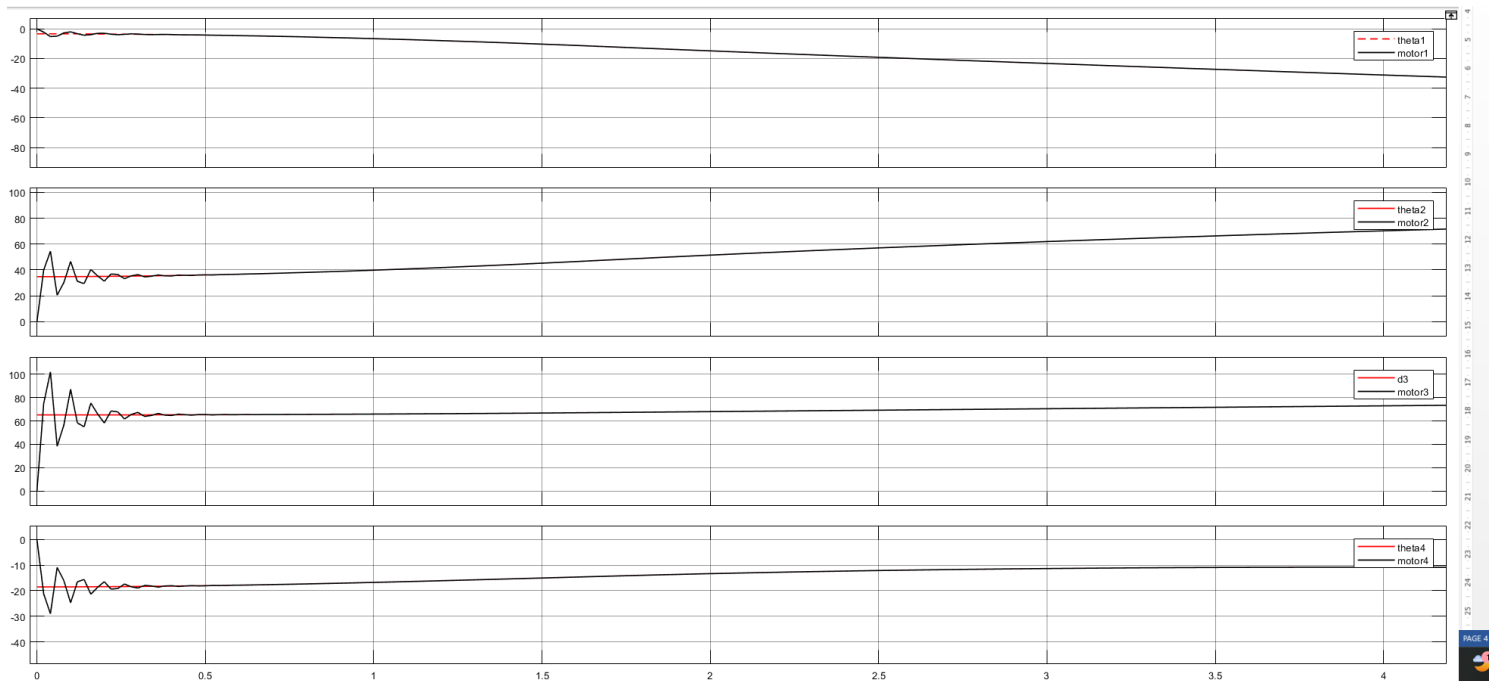
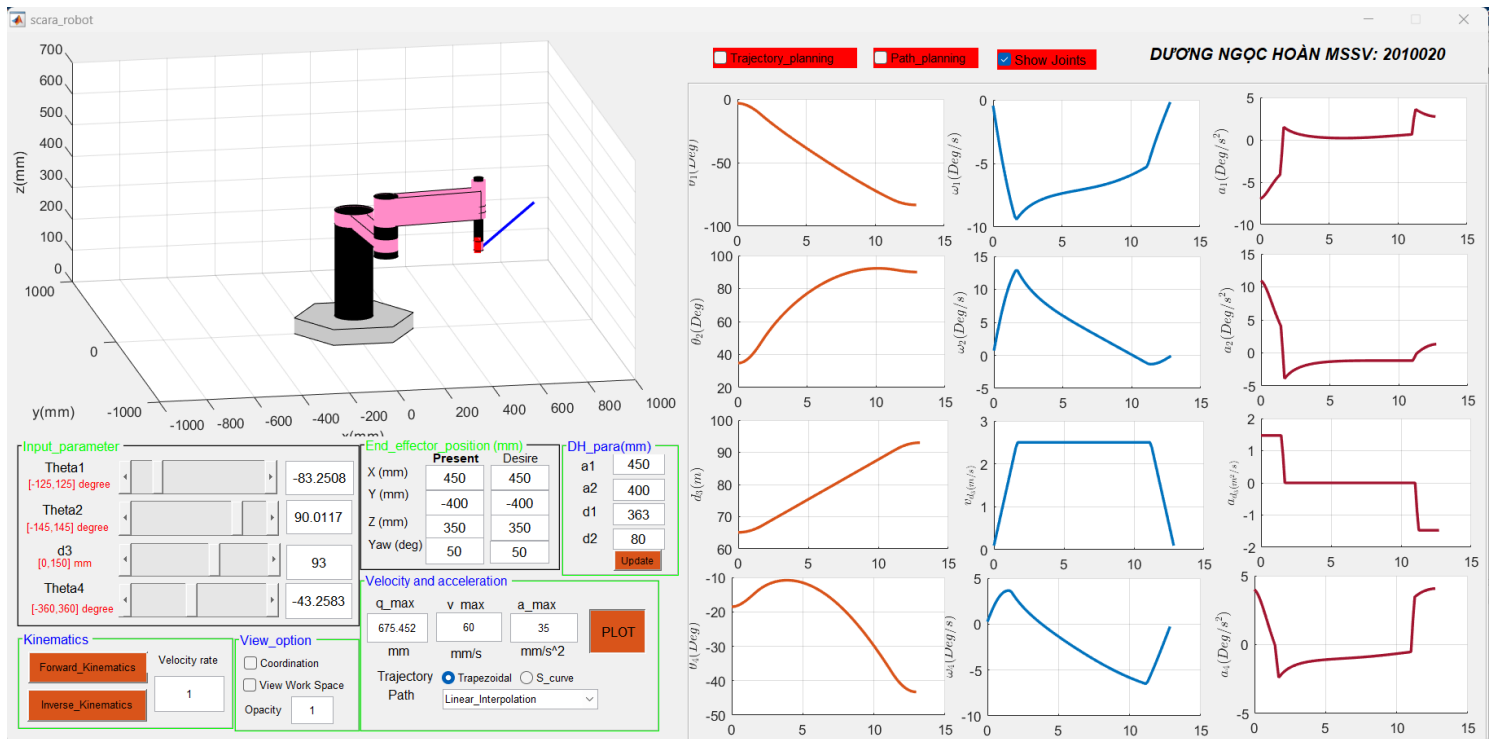
☒ View Work Space

Opacity 1

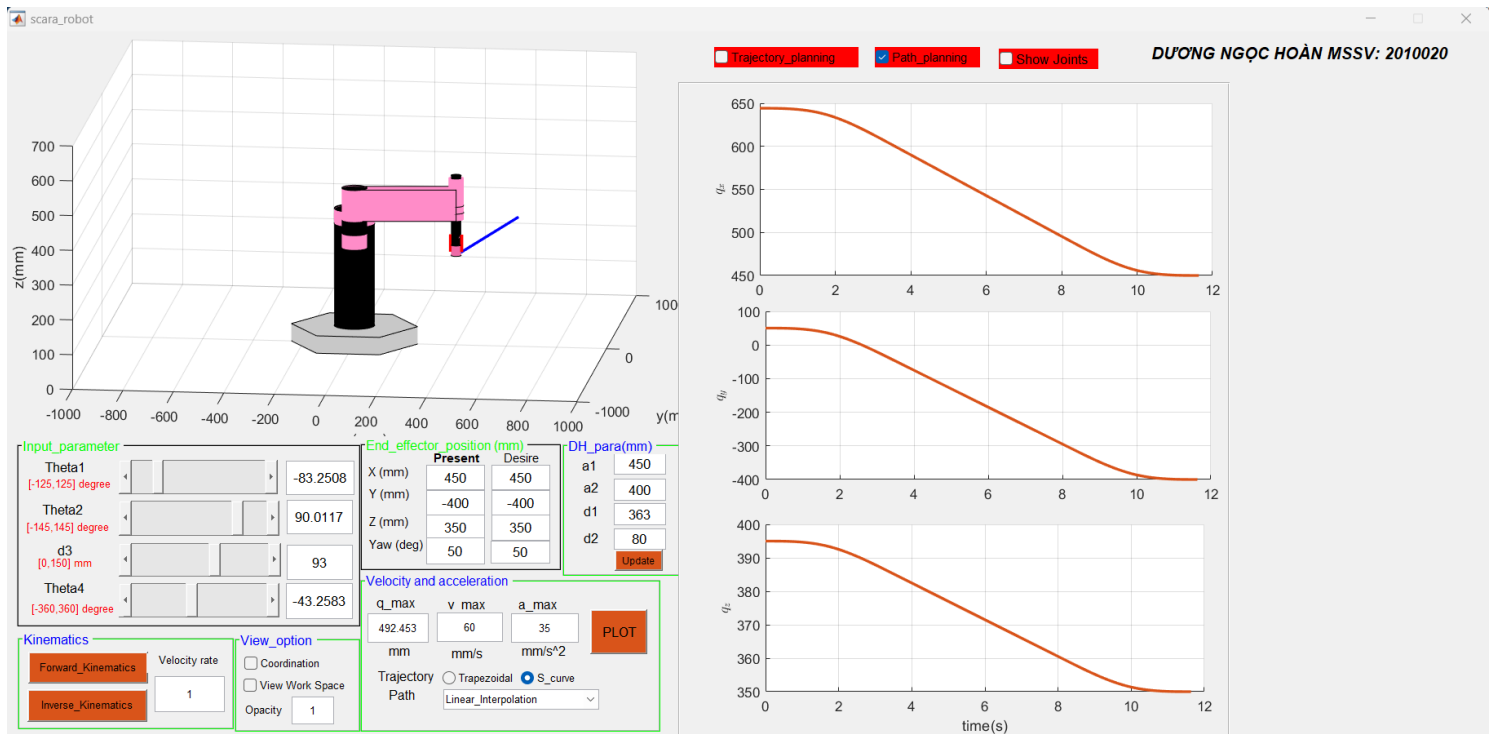
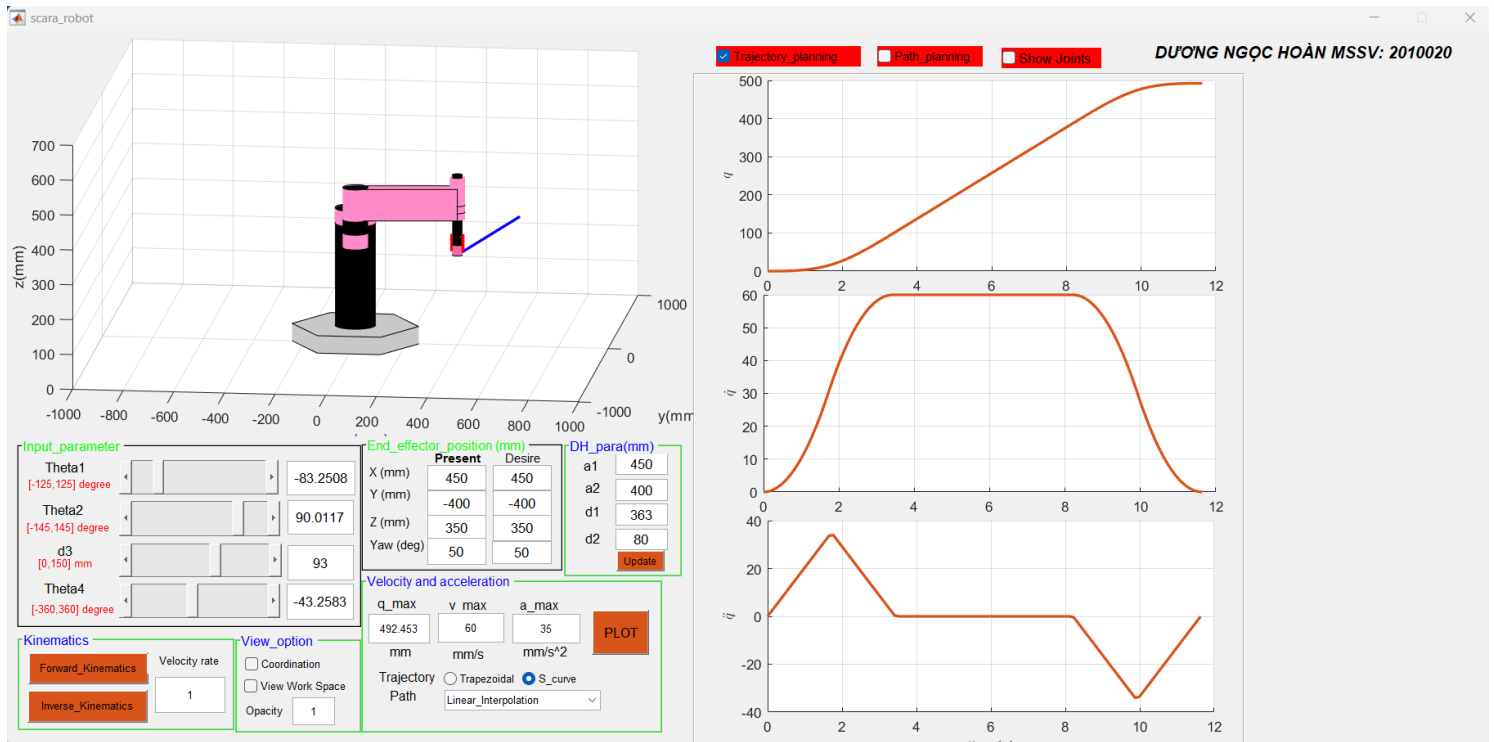
TRAPEZOIDAL TRAJECTORY

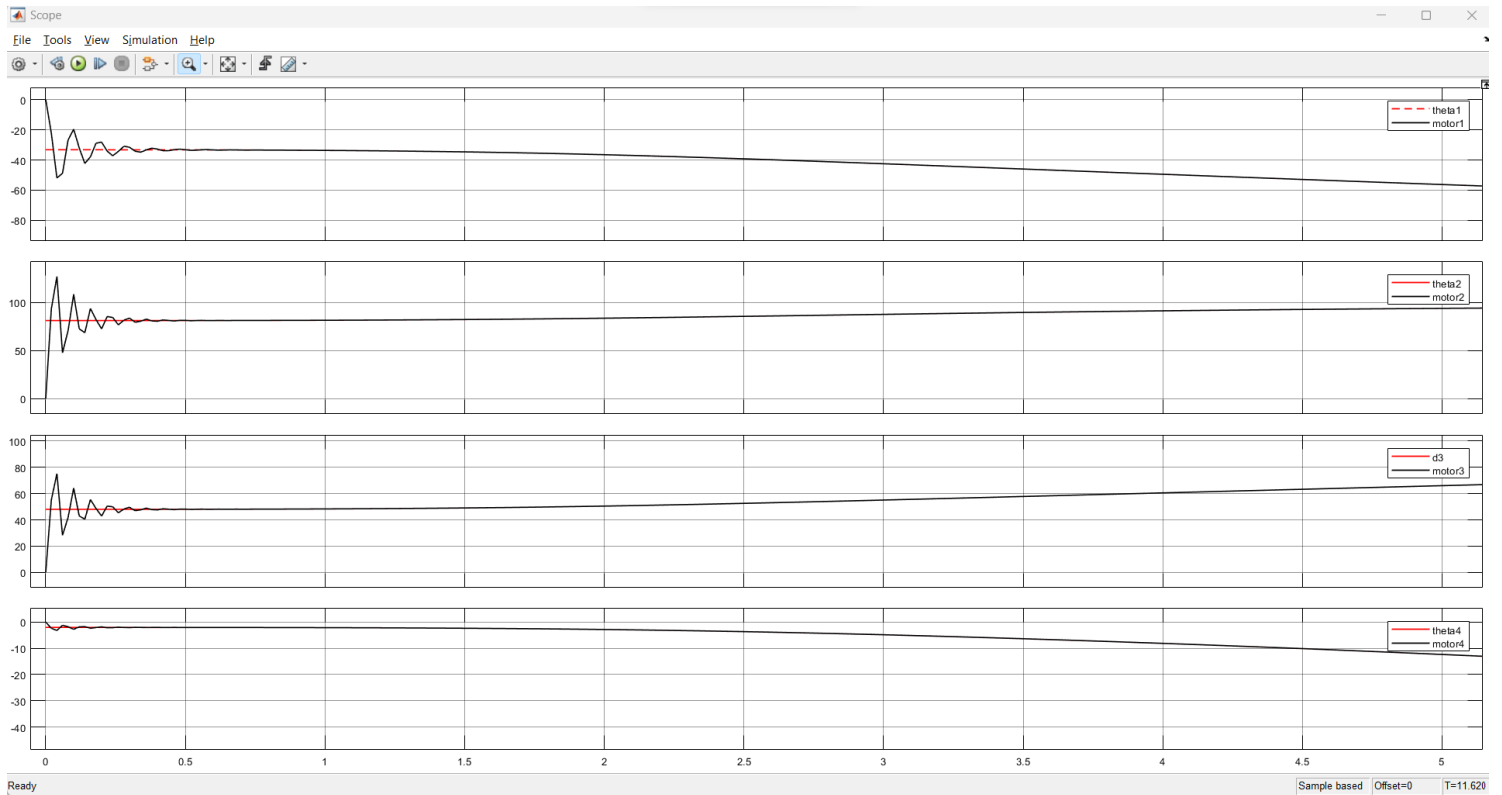
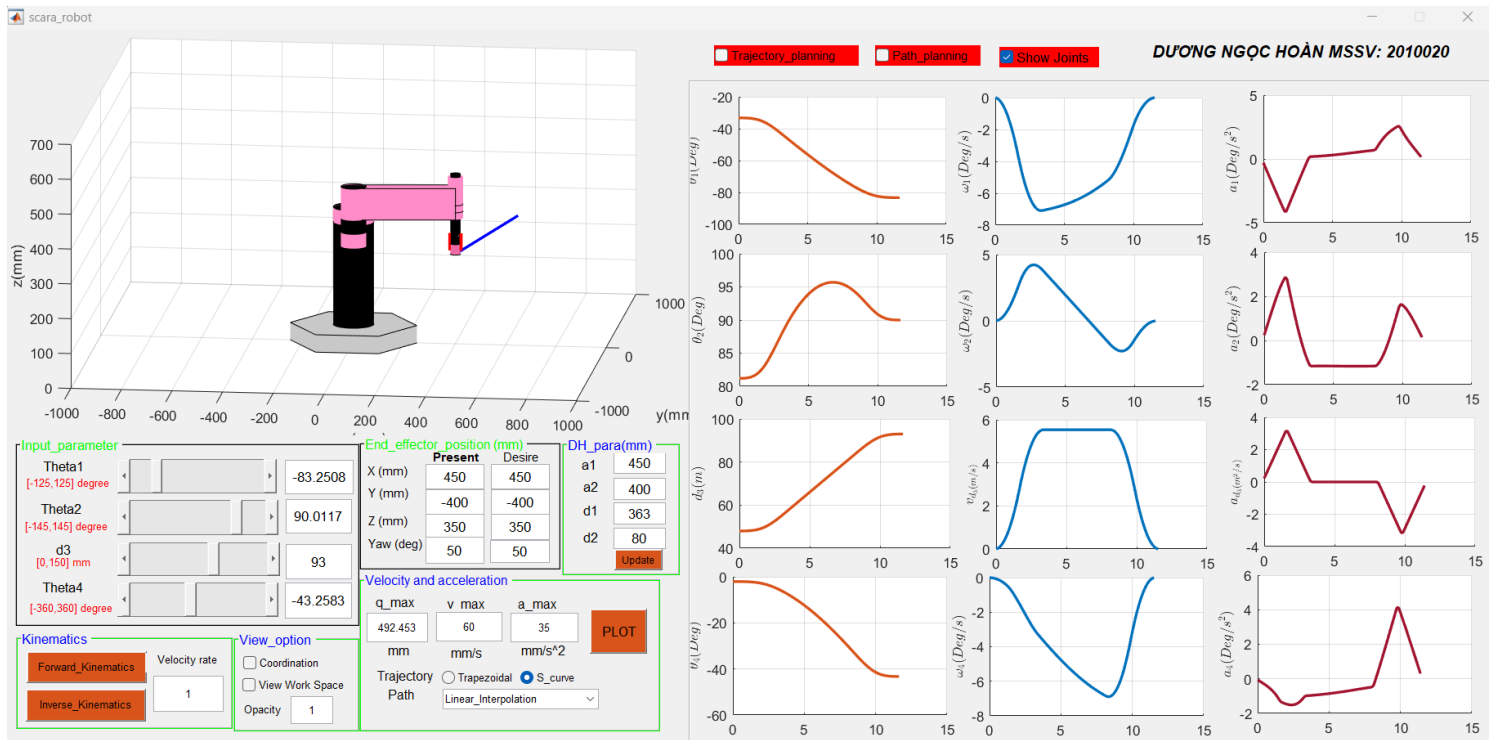
LINEAR INTERPOLATION





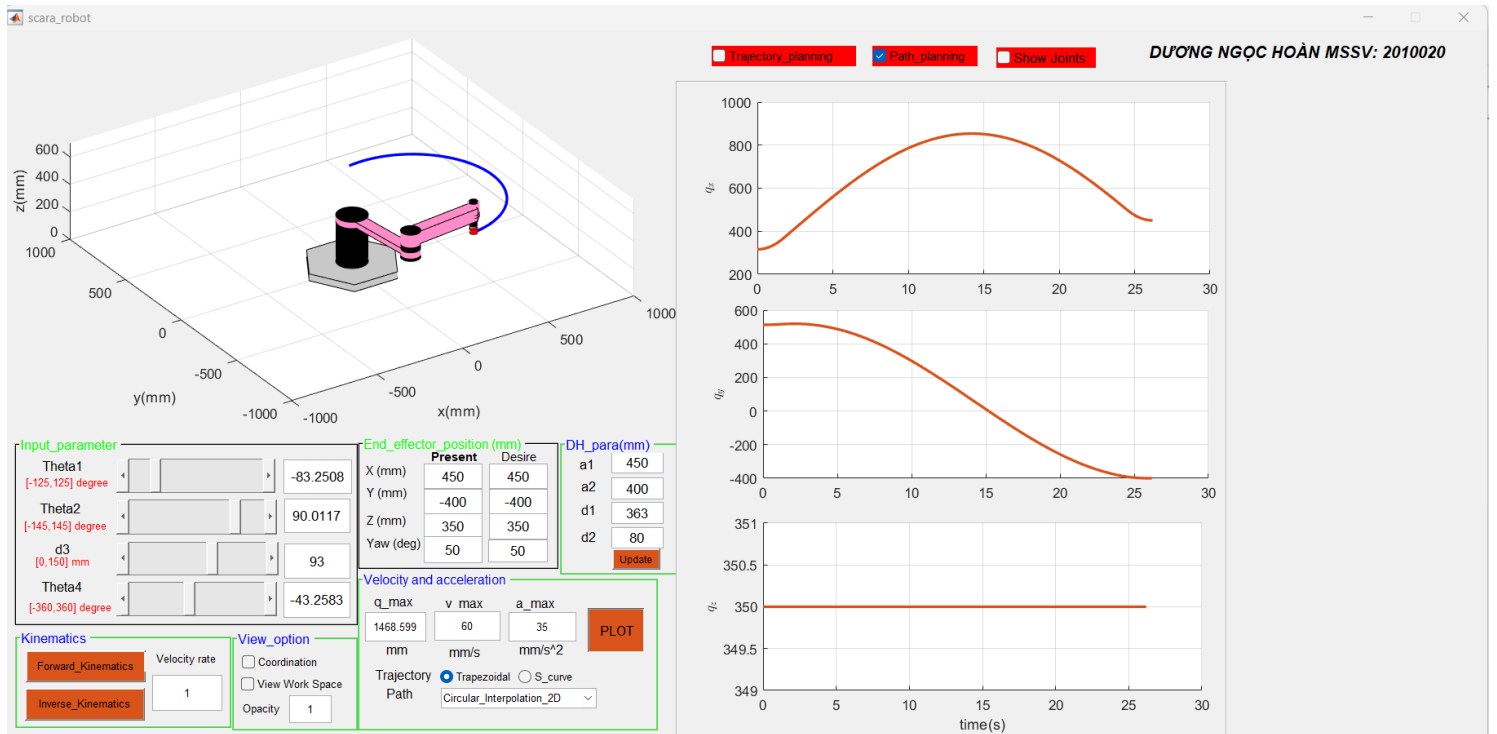
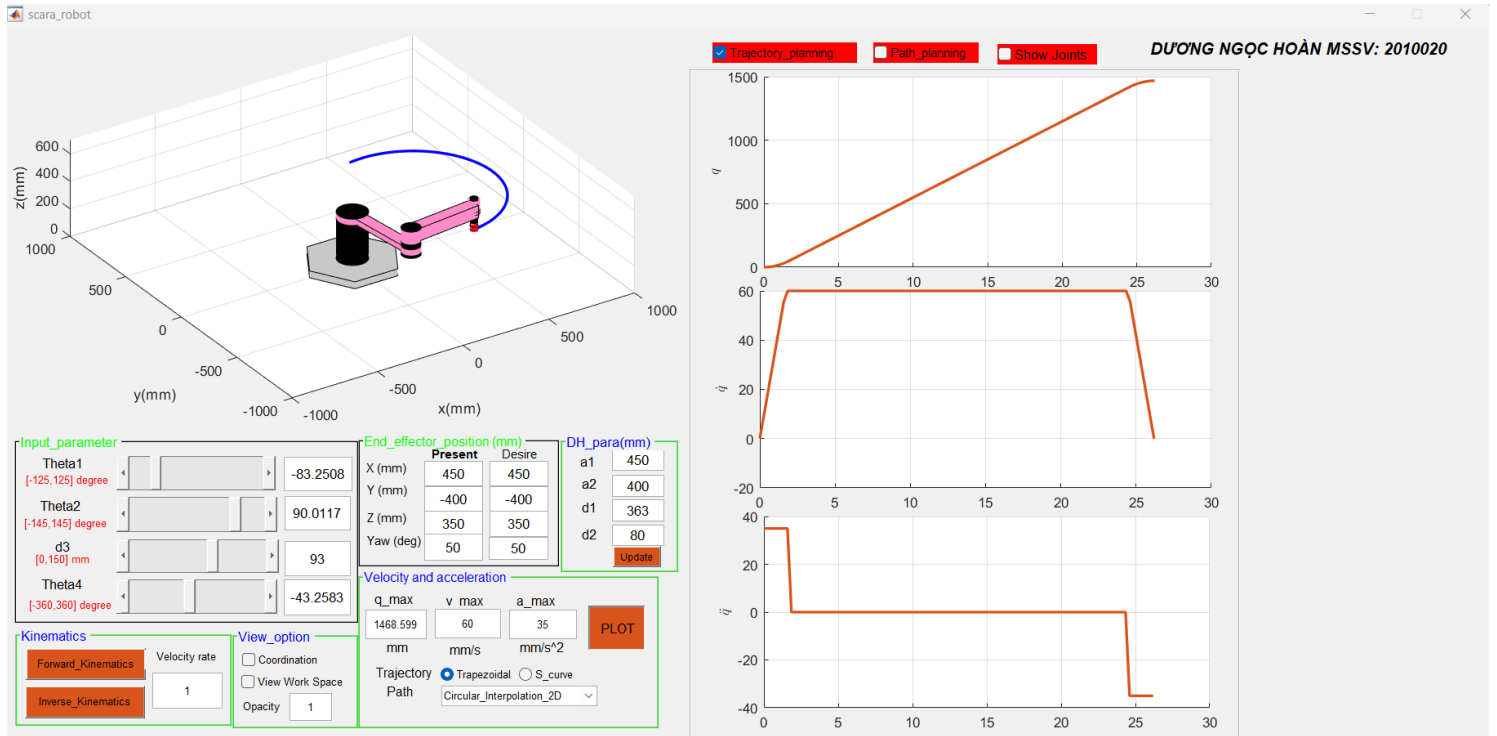
S-CURVE TRAJECTORY LINEAR INTERPOLATION

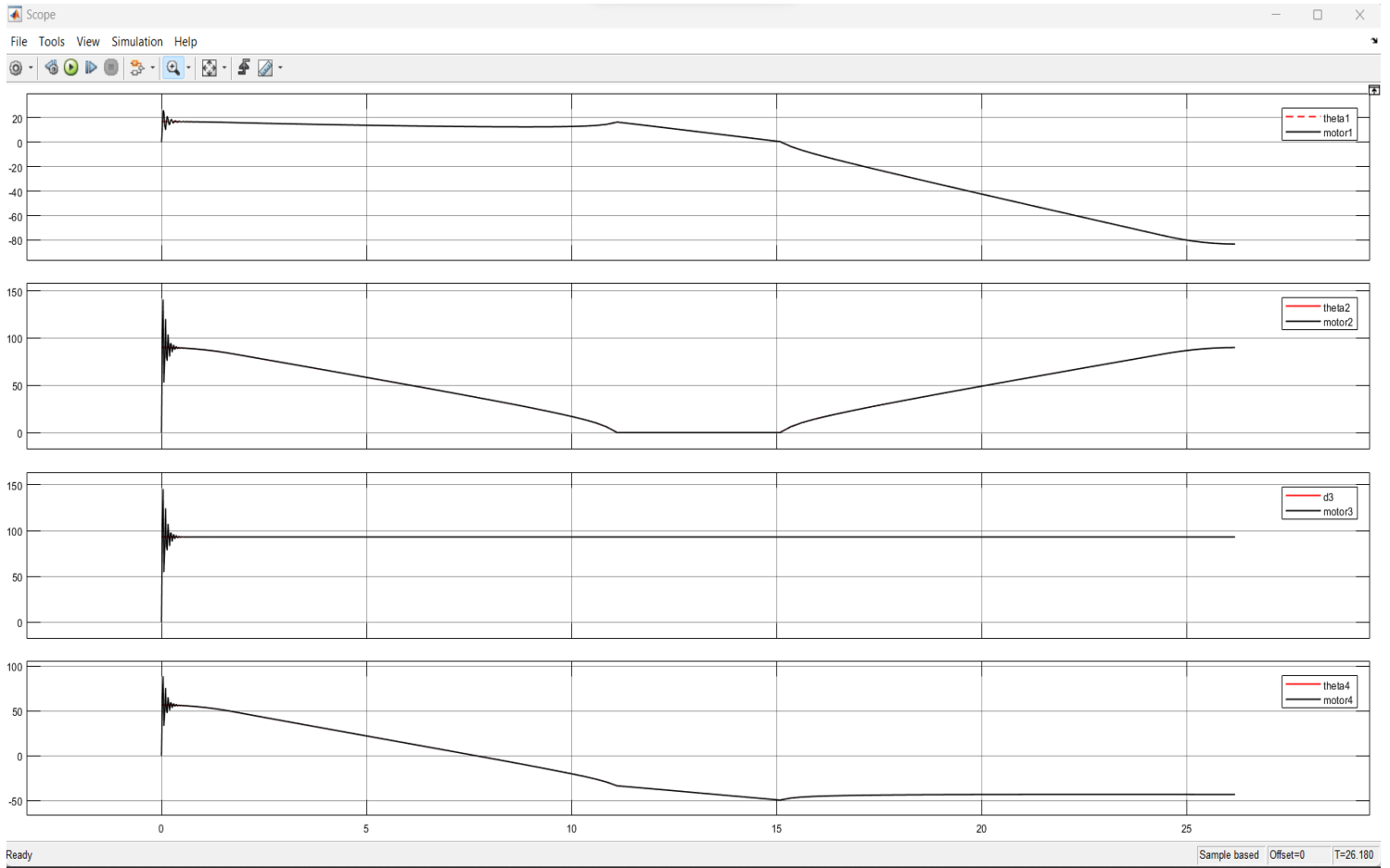




TRAPEZOIDAL TRAJECTORY

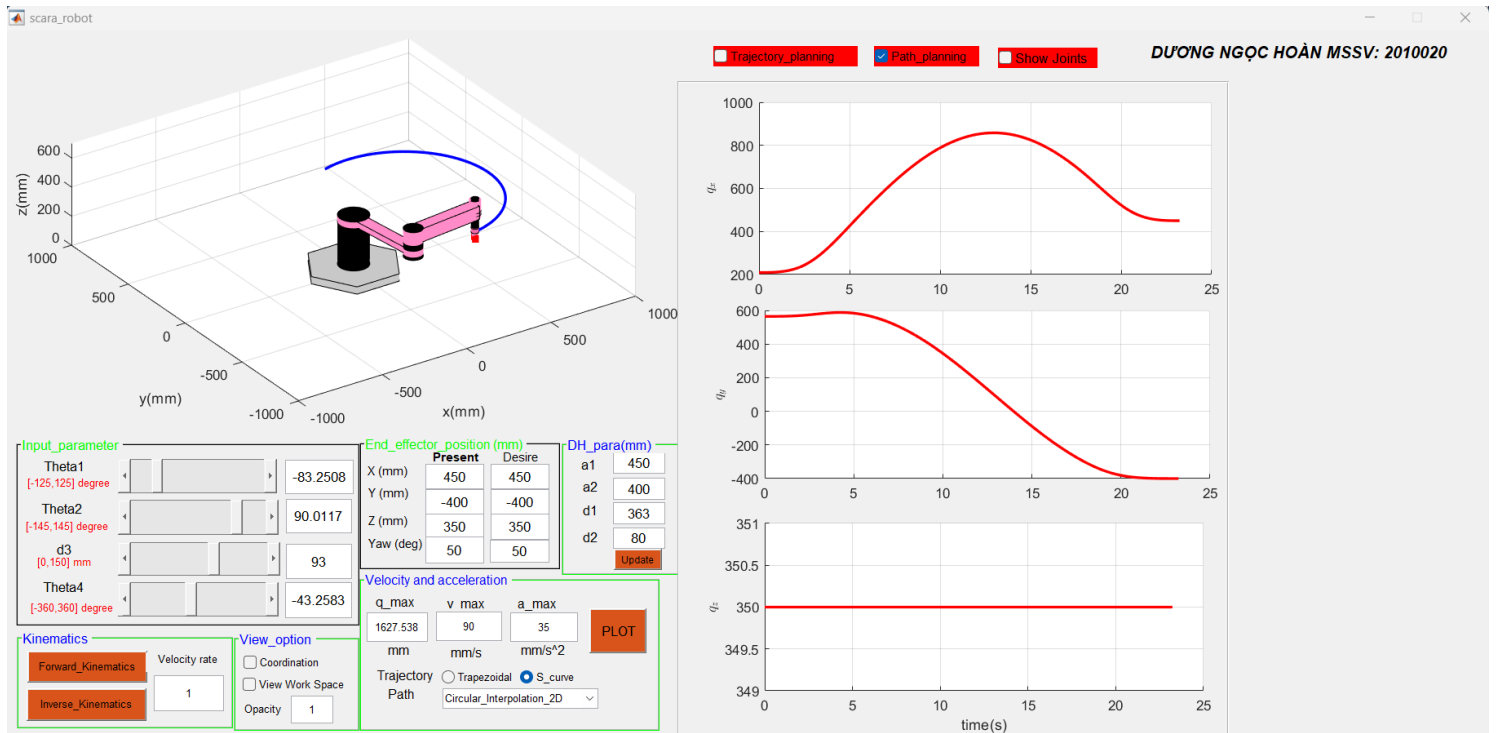
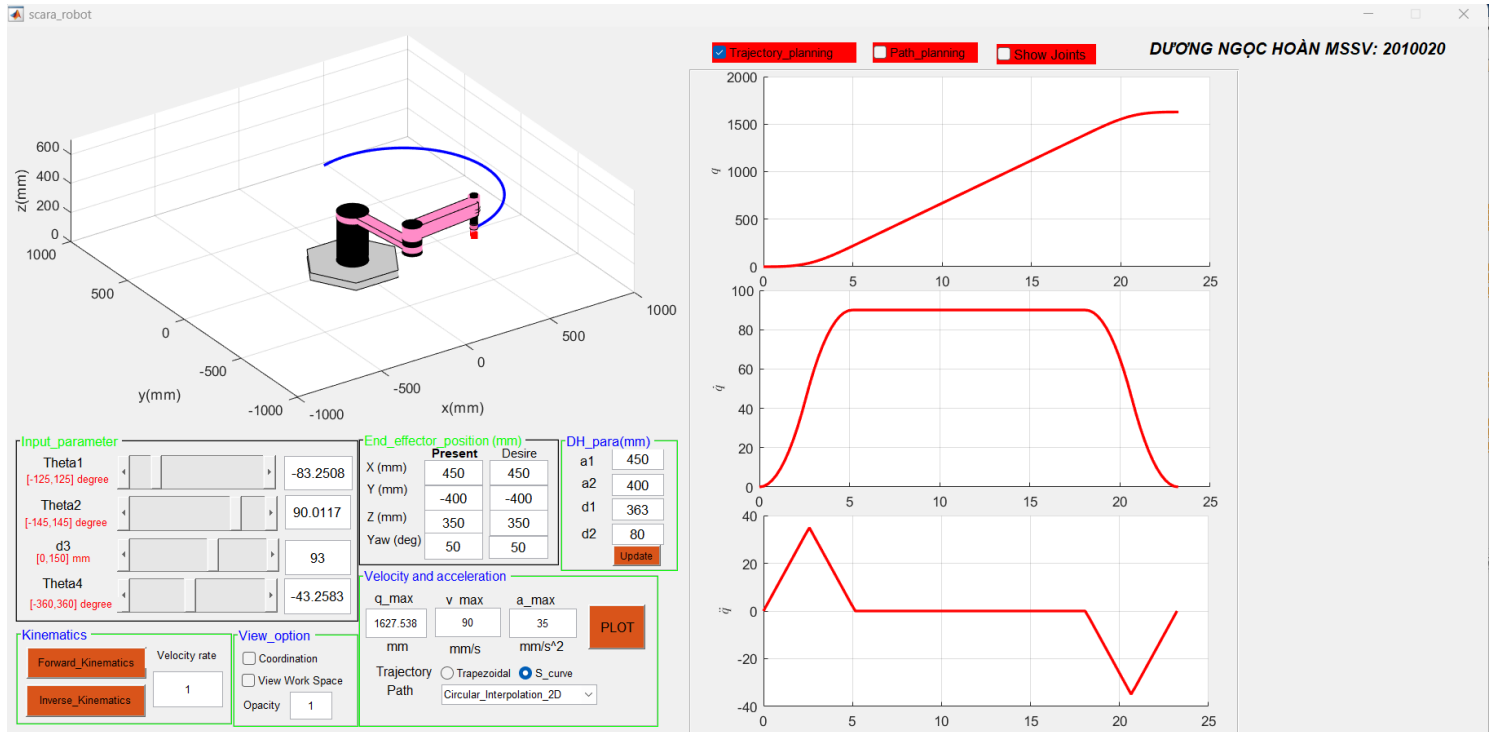
CIRCULAR 2D INTERPOLATION

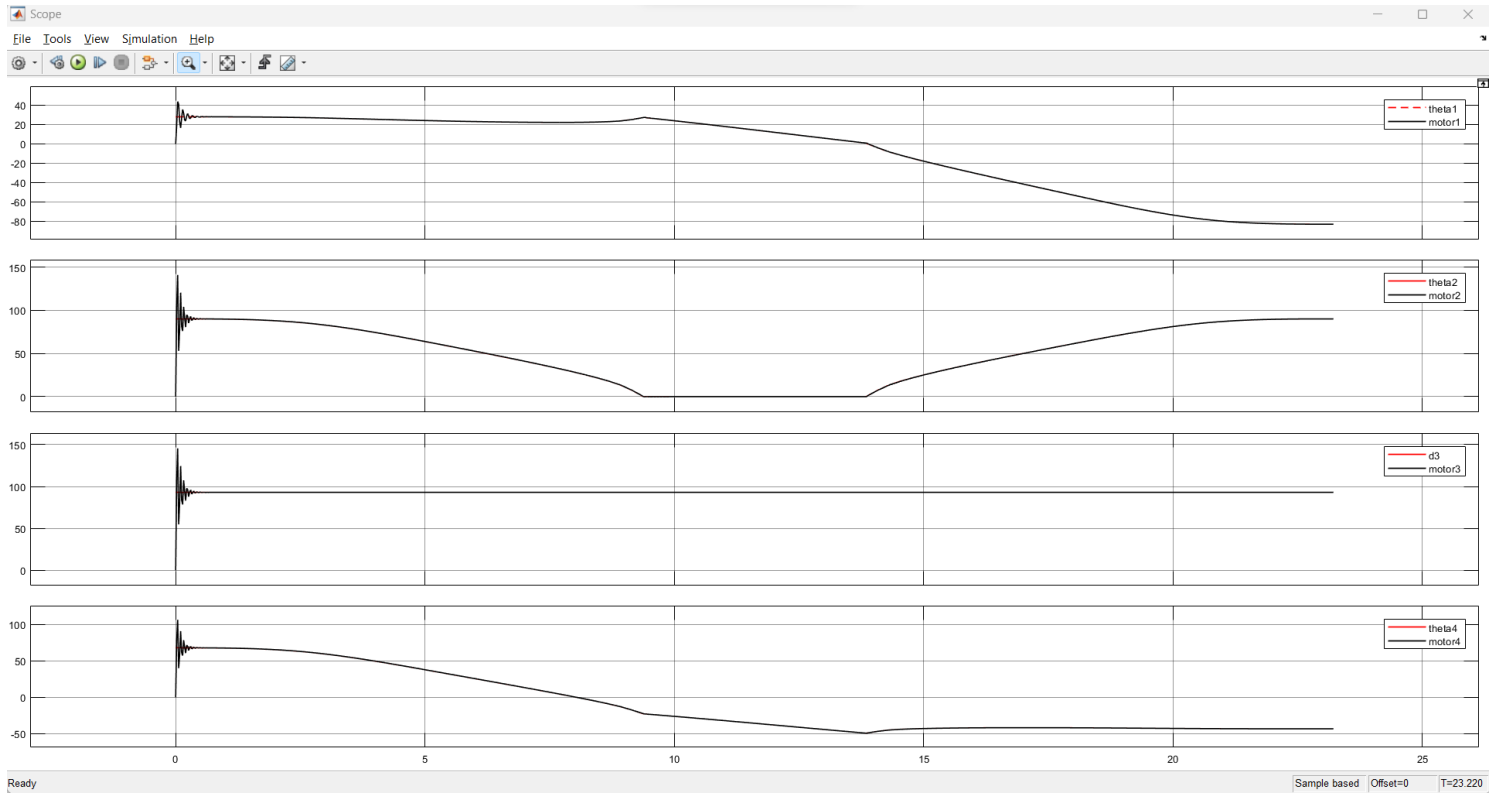
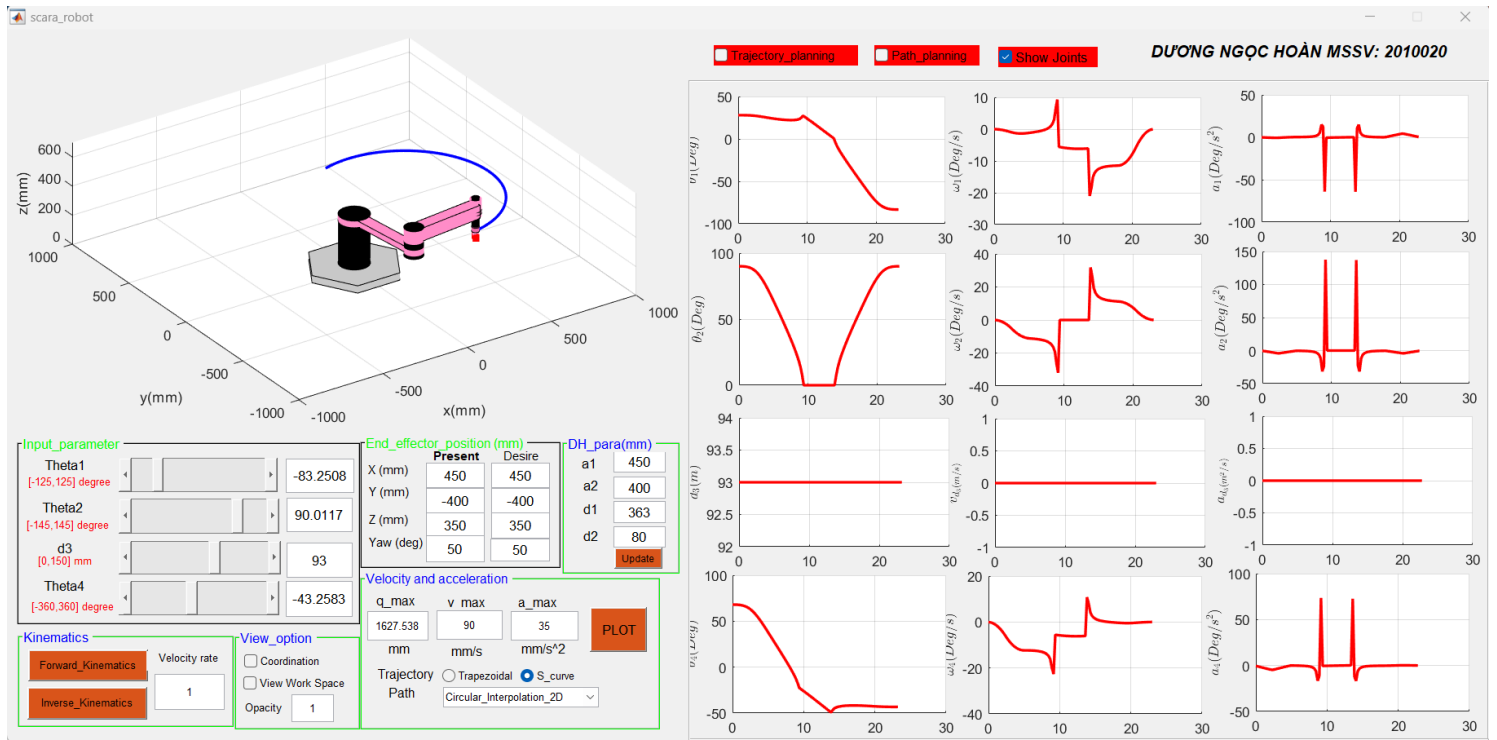




S-CURVE TRAJECTORY

CIRCULAR 2D INTERPOLATION





$f_x \gg$