Collision Avoidance project UML State machine doument

Block Diagram:
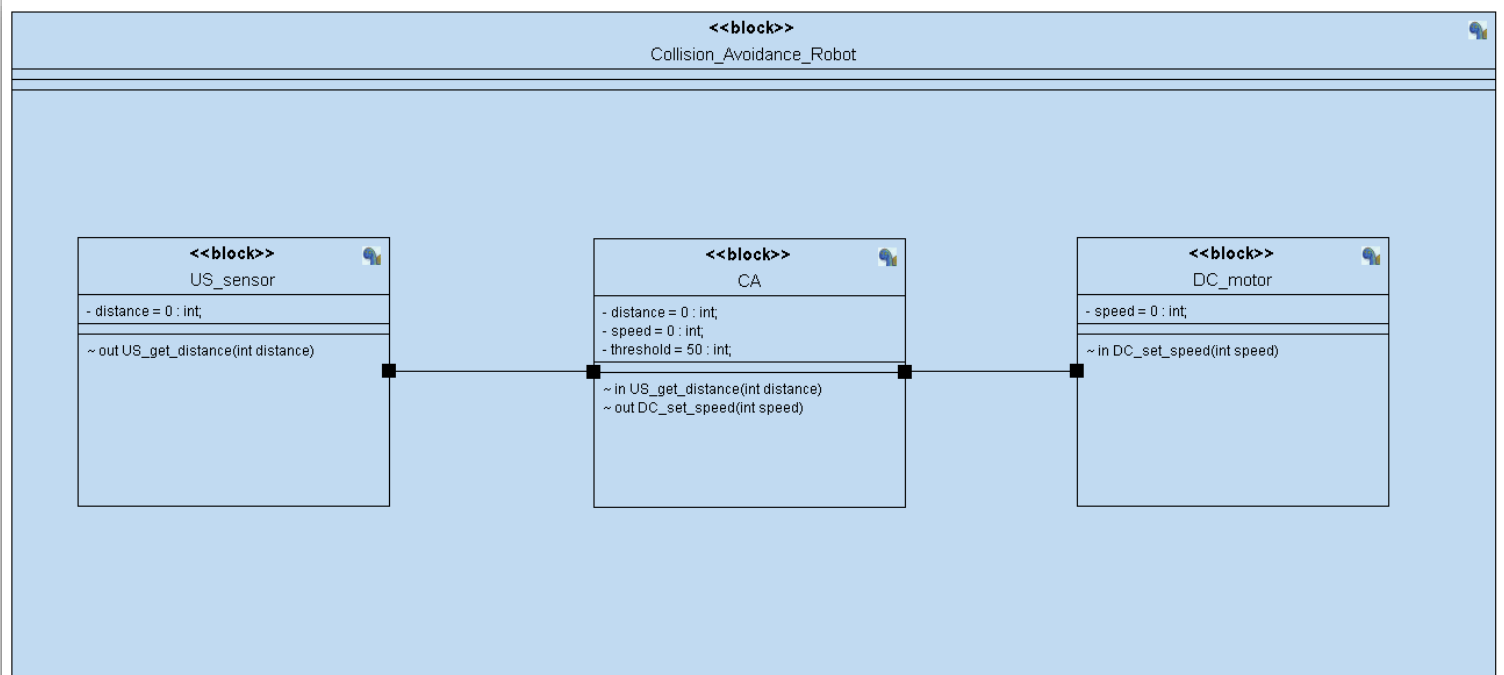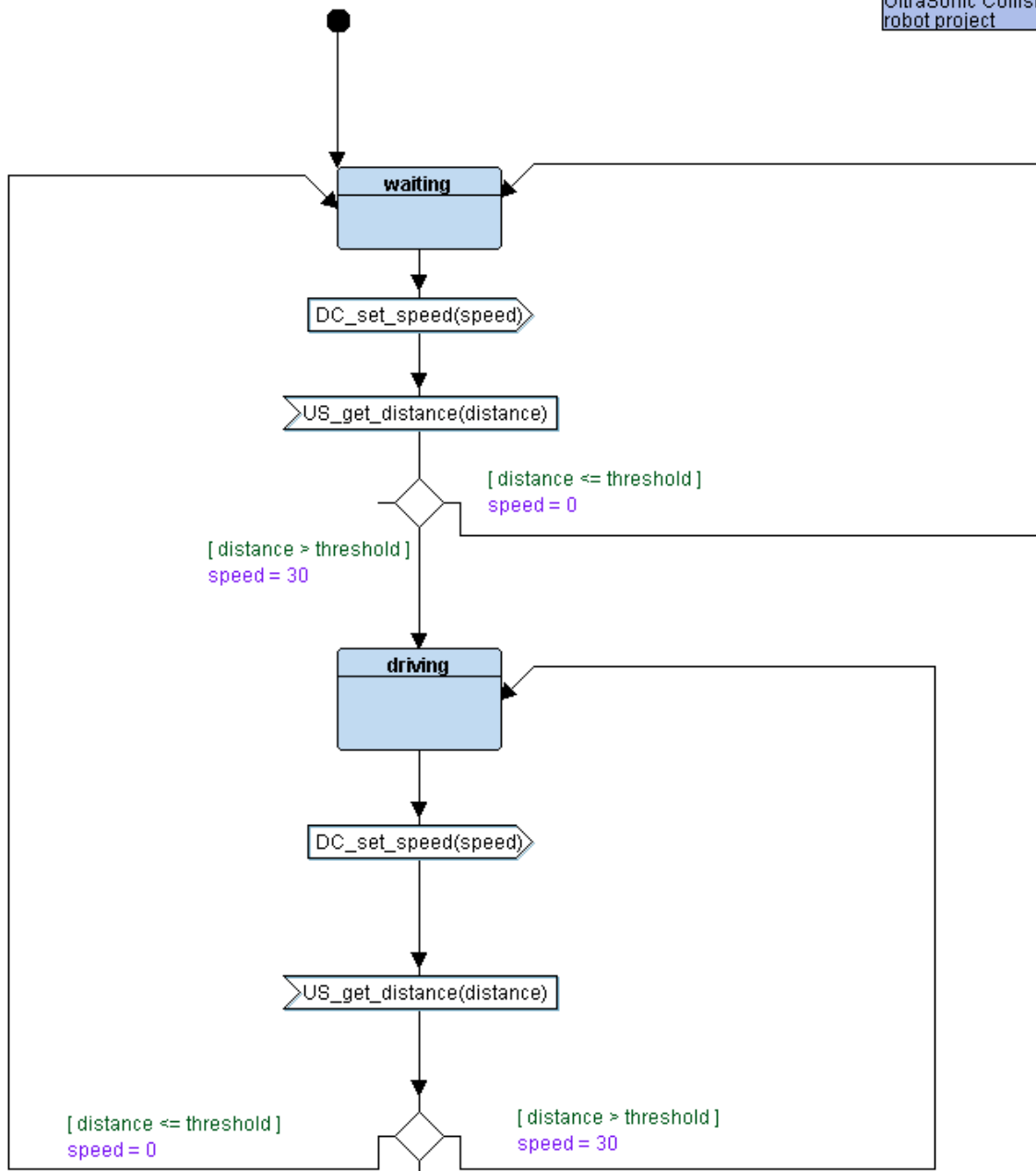
Ultrasonic module state machine

UltraSonic sensor module

init

busy

distance = RANDOM0[45, 55]

US_get_distance(distance)
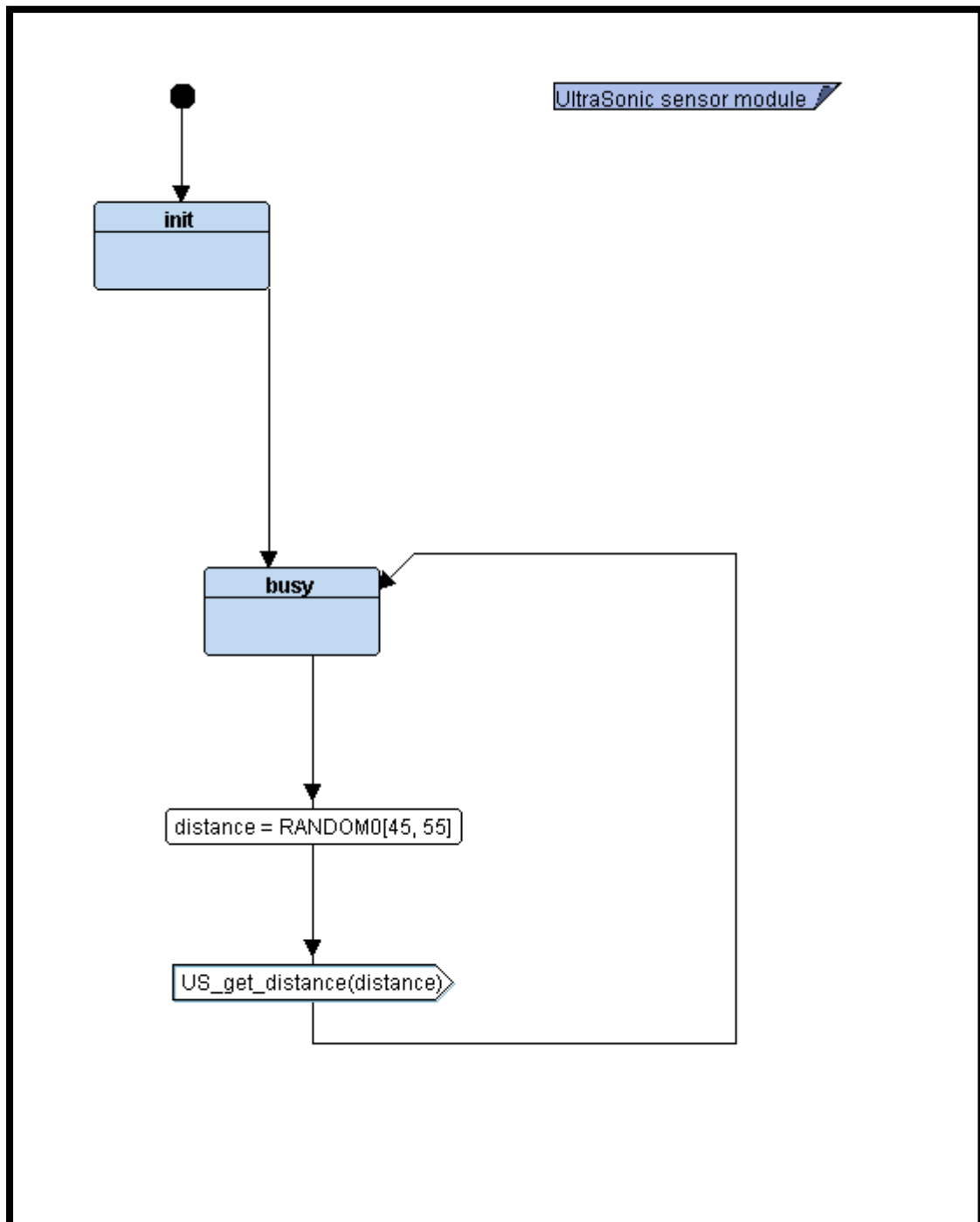
Collision Avoidance module state machine

UltraSonic Collision Avoidance robot project

waiting

DC_set_speed(speed)

US_get_distance(distance)

[distance <= threshold]
speed = 0

[distance > threshold]
speed = 30

driving

DC_set_speed(speed)

US_get_distance(distance)

[distance <= threshold]
speed = 0

[distance > threshold]
speed = 30

DC motor module state machine