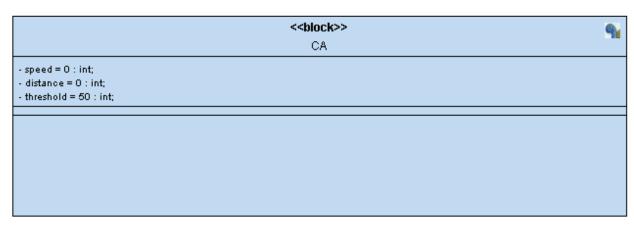
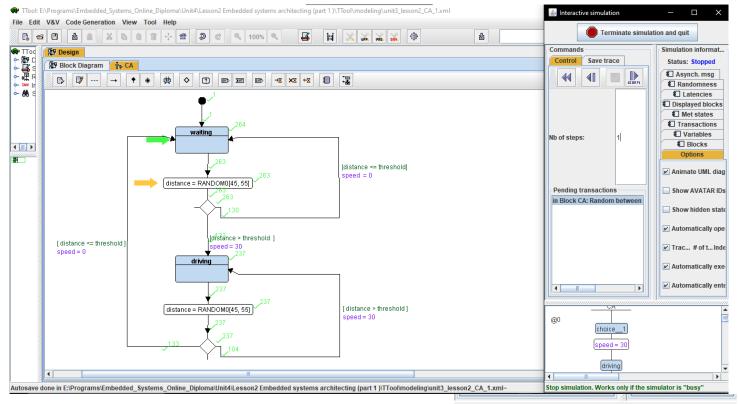
Using 1 Module

Ultrasonic Obstacle-avoiding

The module Block diagram



State machine



distance = 49

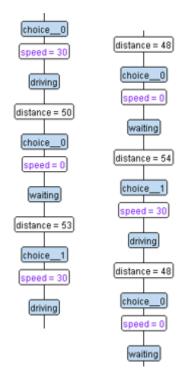
speed = 0

choice waiting

choice_

@0

4

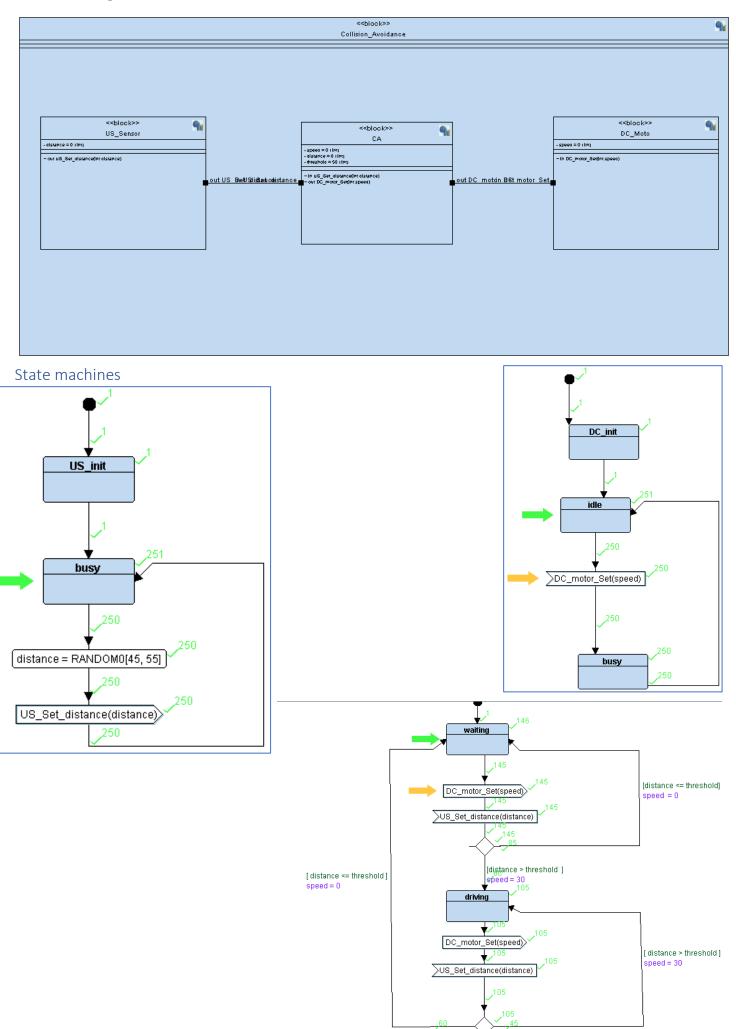


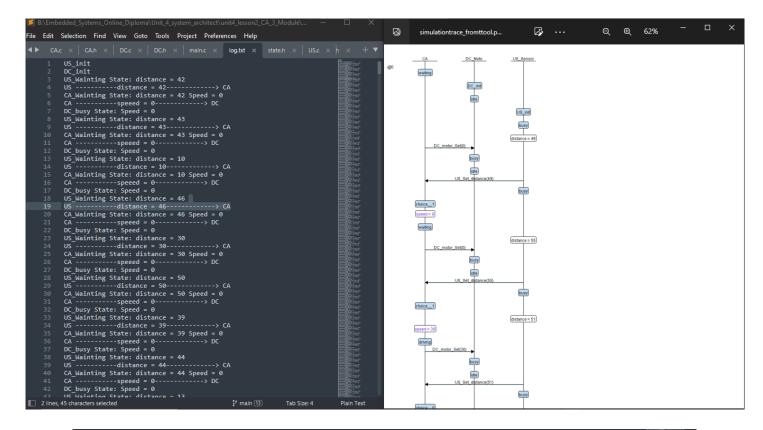
Output code

```
CA_Wainting State: distance = 18 Speed = 0
CA Wainting State: distance = 15 Speed = 0
CA Wainting State: distance = 42 Speed = 0
CA Wainting State: distance = 20 Speed = 0
CA Wainting State: distance = 35 Speed = 0
CA Wainting State: distance = 18 Speed = 0
CA_Wainting State: distance = 52 Speed = 0
CA_Driving State: distance = 55 Speed = 30
CA_Driving State: distance = 43 Speed = 30
CA_Wainting State: distance = 28 Speed = 0
CA_Wainting State: distance = 17 Speed = 0
CA_Wainting State: distance = 24 Speed = 0
CA_Wainting State: distance = 21 Speed = 0
CA_Wainting State: distance = 7 Speed = 0
CA_Wainting State: distance = 34 Speed = 0
CA_Wainting State: distance = 46 Speed = 0
CA_Wainting State: distance = 32 Speed = 0
CA_Wainting State: distance = 19 Speed = 0
CA_Wainting State: distance = 10 Speed = 0
CA_Wainting State: distance = 22 Speed = 0
CA_Wainting State: distance = 7 Speed = 0
CA_Wainting State: distance = 14 Speed = 0
CA_Wainting State: distance = 35 Speed = 0
CA_Wainting State: distance = 53 Speed = 0
CA_Driving State: distance = 55 Speed = 30
CA_Driving State: distance = 55 Speed = 30
CA_Driving State: distance = 8 Speed = 30
```

Using 3 Modules

The block diagram for modules





```
US -----> CA
   CA_Wainting State: distance = 7 Speed = 30
   CA -----> DC
   DC_busy State: Speed = 0
   US_Wainting State: distance = 52
   US -----> CA
   CA Driving State: distance = 52 Speed = 0
   CA -----> DC
   DC_busy State: Speed = 30
   US_Wainting State: distance = 26
   US -----> CA
    CA_Wainting State: distance = 26 Speed = 30
   CA -----> DC
   DC_busy State: Speed = 0
   US_Wainting State: distance = 8
   US -----> CA
   CA_Wainting State: distance = 8 Speed = 0
   CA -----> DC
   DC_busy State: Speed = 0
   US_Wainting State: distance = 43
   US -----> CA
   CA_Wainting State: distance = 43 Speed = 0
   CA -----> DC
   DC_busy State: Speed = 0
   US_Wainting State: distance = 47
   US -----> CA
   CA_Wainting State: distance = 47 Speed = 0
   CA -----> DC
101
102
   DC_busy State: Speed = 0
103
   US_Wainting State: distance = 52
```