**RC car software architecture**

**Note:** *In this version of the project the car will have the following functions: Go left, right and handbrake. This will be controlled only using the glove. So the software components that make up this version of the project are: Bluetooth, Motor controls, State manager and Scheduler.*

1. **DC\_MotorsSBSWC**
2. **v\_Turn( ub\_TurnDirection, ub\_TurnPercentage )**

ub\_TurnDirection: ub\_LEFT or ub\_RIGHT.

ub\_TurnPercentage: value from 0 to 100.

1. **v\_Accelerate( ub\_AccelerationDirection, ub\_AccelerationPercentage )**

ub\_AccelerationDirection: ub\_FORWARD or ub\_BACKWARD.

ub\_AccelerationPercentage: value from 0 to 100.

1. **v\_Handbrake( ub\_HandbrakeRequest )**

ub\_HandbrakeRequest: ub\_HANDBRAKE\_ON or ub\_HANDBRAKE\_OFF.

1. **DC\_Motors**
2. **v\_MotorControl( ub\_LeftRight, ub\_ForwardBackward, ub\_Handbrake )**

ub\_LeftRight: A number between 0 and 255. Examples: 0 = Turn left 100%, 127 = No turn, 255 = Turn Right 100%.

ub\_ForwardBackward: A number between 0 and 255. Examples: 0 = Accelerate backward 100%, 127 = No acceleration, 255 = Accelerate forward 100%.

ub\_Handbrake: 1 if handbrake is requested, 0 if not.

**Glove software architecture**