**ECU 1**

# Components connected:

1. Can transiver (for communication between the two ECUs)
2. Light switch
3. Speed Sensor
4. Door Sensor

# Modules:

## External hardware:

1. Can transiver module
2. Switch module
3. Speed Sensor module
4. Door Sensor module

## Internal hardware:

1. Port module (initialize all pins required with modes)
2. Dio module (switch module, Door Sensor module)
3. Gpt module (timer for application)
4. Adc module (for speed sensor)
5. Can module (for can transiver)