

Core 0

velocity control task

Speed measurement
Dynamics calculations
CACC control law
CAM message content update
Update motor speed

SPI

Control, send and receive serial communication signals

Taskscheduler

Handle tasks dedicated interrupt

Core 1

Loop

Does nothing

data logger task

Send CAM messages, and log vehicle data

distance controller task

Distance measurement
Acknowledge velocity task
Calculate relative dynamics

ESP-NOW

Send & Receive ESP-NOW messages

GPIO

Control GPIOs signals

Taskscheduler

Handle tasks dedicated interrupt