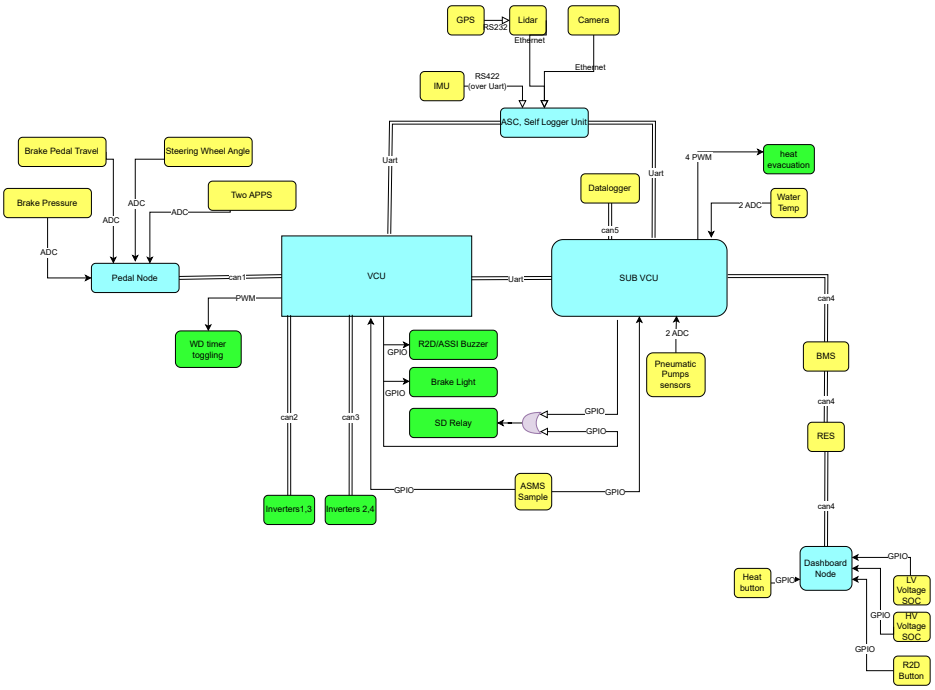


Code functionalities:

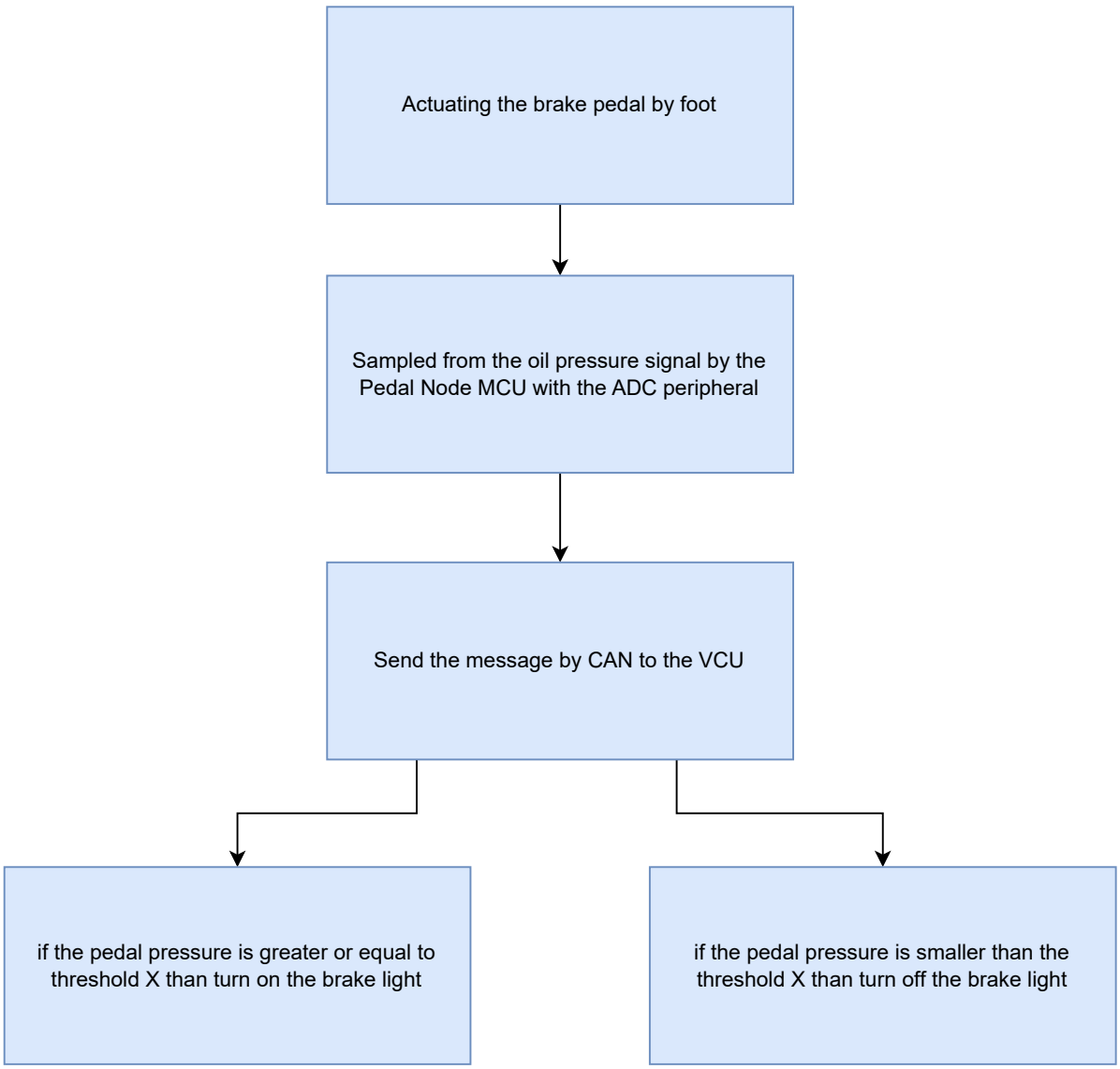
VCU + Sub VCU:
1) Brake light actuation
2) SCS Monitoring for manual mode and AS signals
3) APPS/Brake Pedal Plausibility Check(If we decide to not compute power, maybe give this responsibility to Actuator Controller?
4) Manual Mode - ready to drive sequence and disabling ASB
5) Inverters power output control
6) Provide Handbook signals and ASB signals to datalogger
7) Tunneling AMI chosen mission to ASC and actuating AMI+ASSI
8) Closing SDC if driving mission conditions are fulfilled(T14.5)
9) Provide signals of ESB implementation at Actuator Controller, actuate SDC is communication loss/fault.
10) Actuating the buzzer for Manual R2D.
11) Sample rear ASB Signals.
12) Decide the AS Status according to Figure 17 and actions according to it. Control ASSI status.
13) Actuate the SDC according to RES signals
14) Precharge control & actuating the AIR's.
15) Receiving messages from BMS and RES.

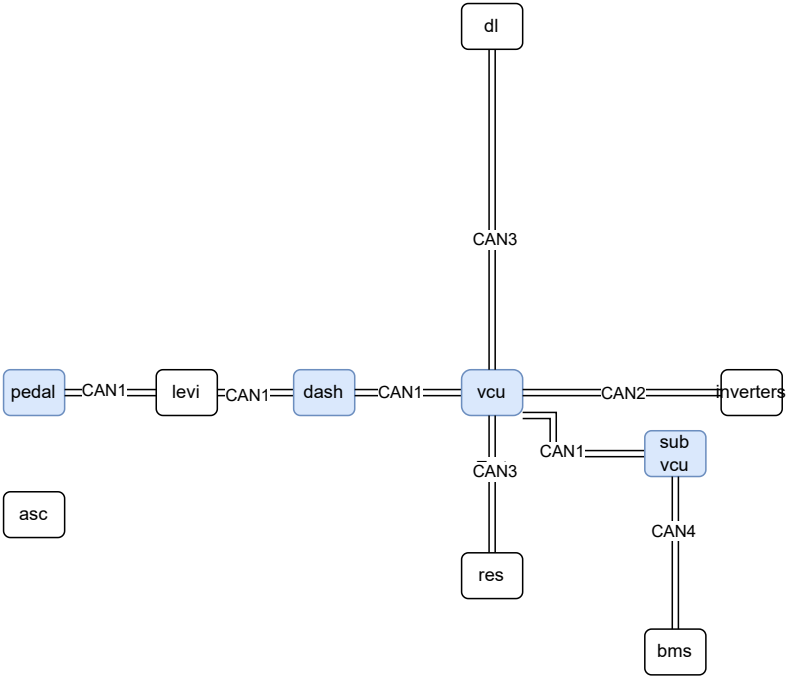
Pedal Node:
1) Sample the following signals: APPS, BPPS, BOPS, SWPS
2) ASB Functionality check implementation.
3) ASB SCS signals monitoring(Watchdog, etc.), T15.2.1 and perform emergency brake maneuver(Brake + Steering) if ASB failure.
4) Provide ASB signals and front sensors
to VCU for datalogger

Dashboard Node-
1) Receiving chosen mission in AS mode.
2) Receiving R2D from driver while manually driving.
3) Receiving heat evacuation mode for the driver.
4) Show the driver relevant data about the car.
5) Preparing and sending the updated messages to the Levi Node which control the steering wheel in AS mode.

Levi Node-
1) Actuates the steering wheel servo according to the generated ASC signals.
2) Gives several details about the servo including: temprature, position and velocity.

Mission 1: Actuating the brake light




dl
CAN3
pedal
CAN1
levi
CAN1
dash
CAN1
vcu
CAN2
inverters
CAN1
sub
vcu
CAN3
asc
CAN4
res
bms