

Vehicle Control Unit:

The vehicle control unit (VCU) is defined as the brain of the self-driving car.

After summing up the input from all sensors, the VCU is very capable of making decisions and giving instructions to be carried out.

Since we will use multiple sensors, including (cameras, radars, ultrasound sensors ...) and convolutional neural networks in image processing, a DRIVE AGX Developer Kit developed by NVIDIA will be used as the vehicle computation unit. Worth mentioning is that the Nvidia company provides a complete tutorial on how to Integrate DRIVE AGX in our vehicle and implement our own processing algorithms.