**Task 2: Short Response Question**

**Without Googling/asking an LLM** explain how you would design a system that tries to take sensor data as an input and has to steer the car as the output. Some things to consider:

* What should the output of the system be? (There are many right answers)
* What inputs are most/least useful, and why?
* Take a step back and forget about neural networks and ML. What would your answer be without these? (These tend to be the best solutions.)

1. The output of the system should be a steering command or an expected trajectory. To be more specific, it can be the angles for a wheel for the following seconds or even shorter time.

2. The most useful inputs should be LiDAR of course, and cameras.

LiDAR can be used to detect the obstacles and also the distances between them.

Cameras can be used to detect the traffic signals, the road situation.

So my pipeline should be:

A diagram of a process

Description automatically generated