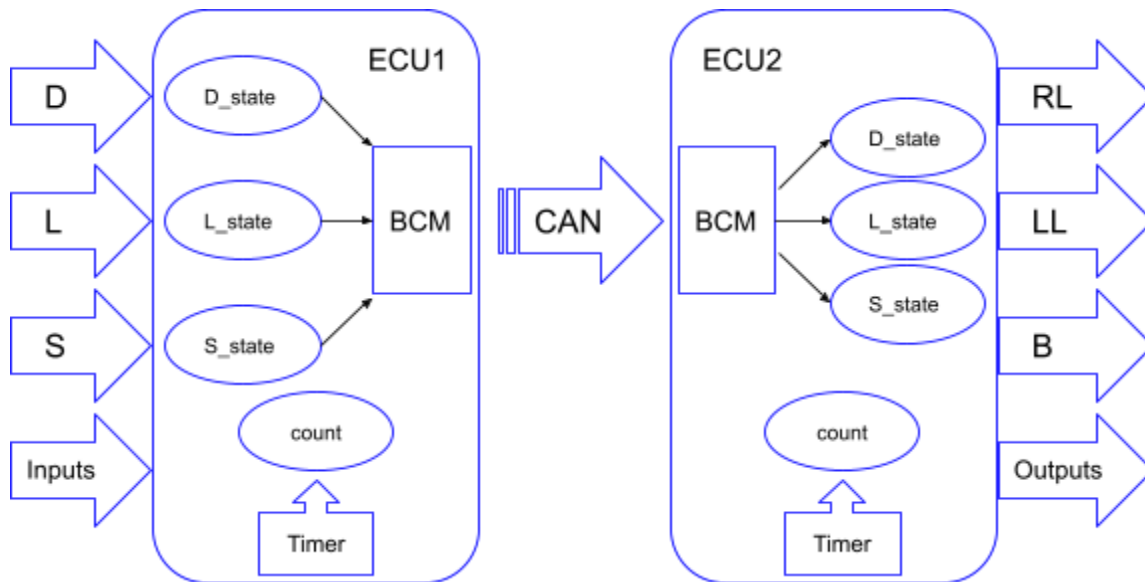


System Schematic

Shown below is the system schematic according to the given requirements:

The two ECUs:



The system's logic:

