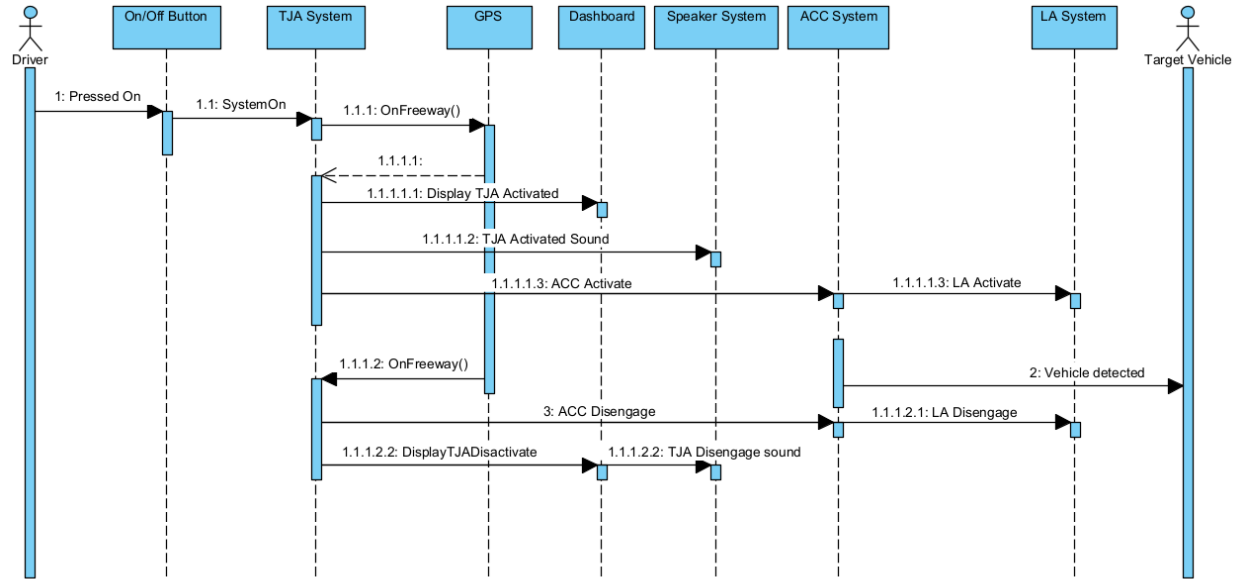
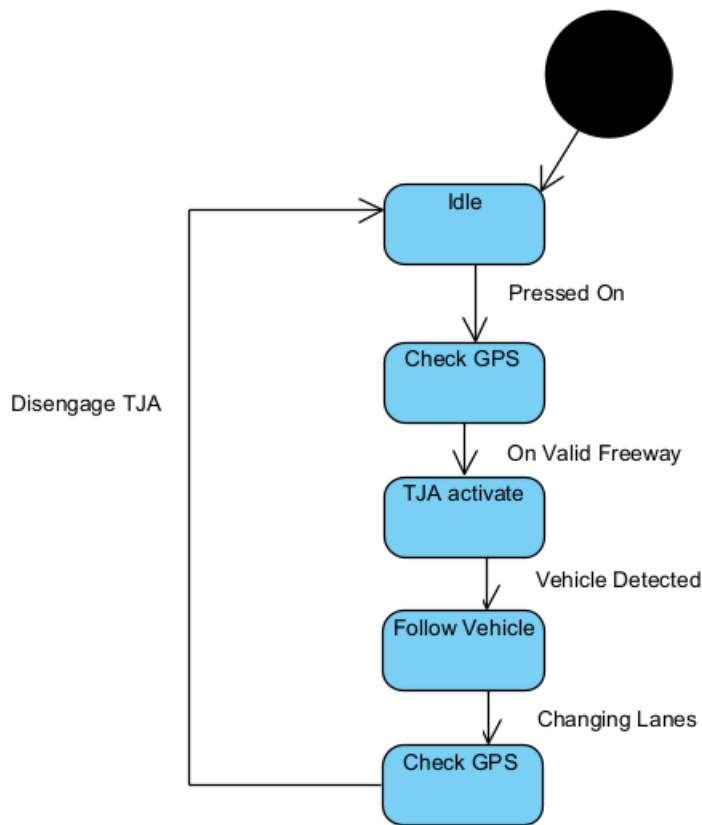


## Group HW 5 TJA2



Sequence Diagram for TJA disengage due to leaving approved freeway

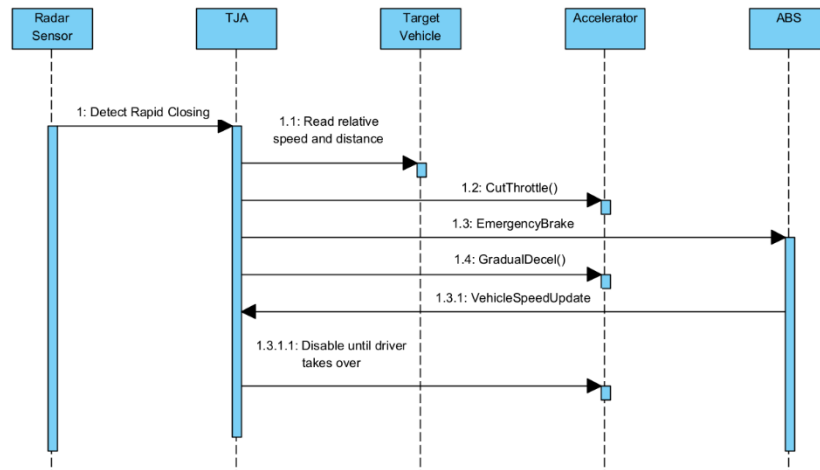


State Diagram for TJA disengage due to leaving approved freeway

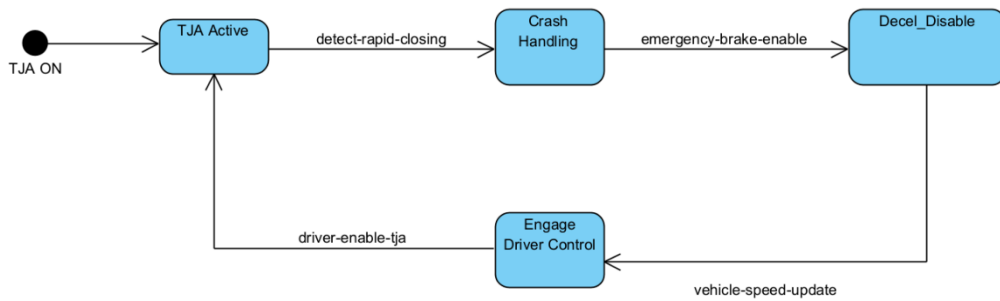
#### Crash Imminent Sequence Diagram

When the radar detects that the target vehicle is closing rapidly, it will read the speed and distance and cut the throttle and engage the emergency brakes.

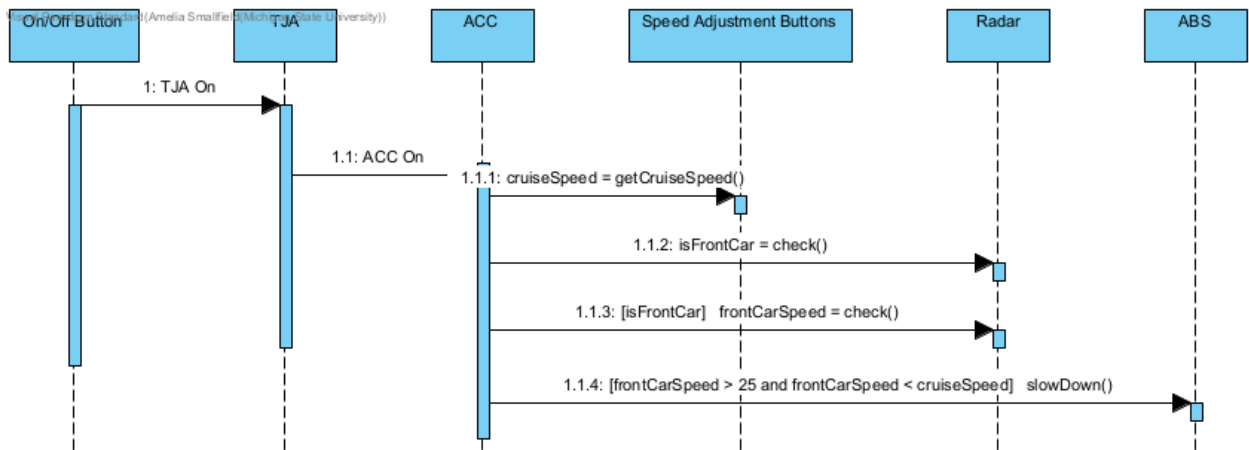
The vehicle will gradually slow down while TJA is disabled for driver control until vehicle speed is updated.



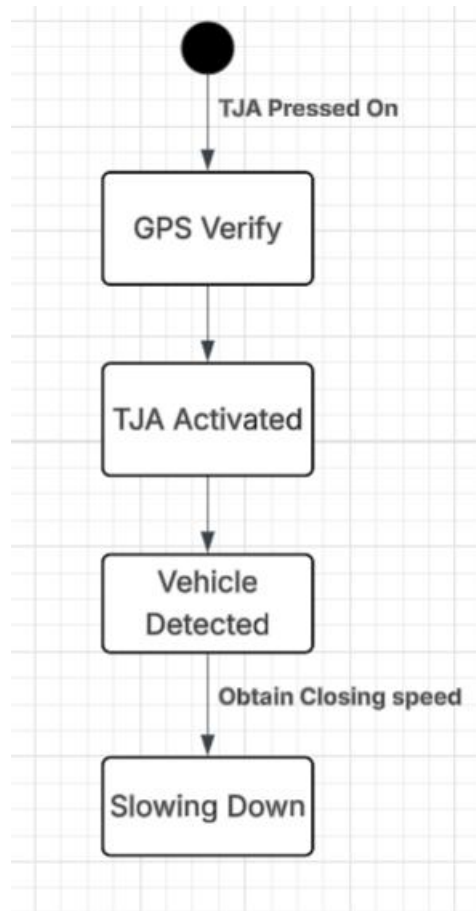
### Sequence Diagram for an imminent crash



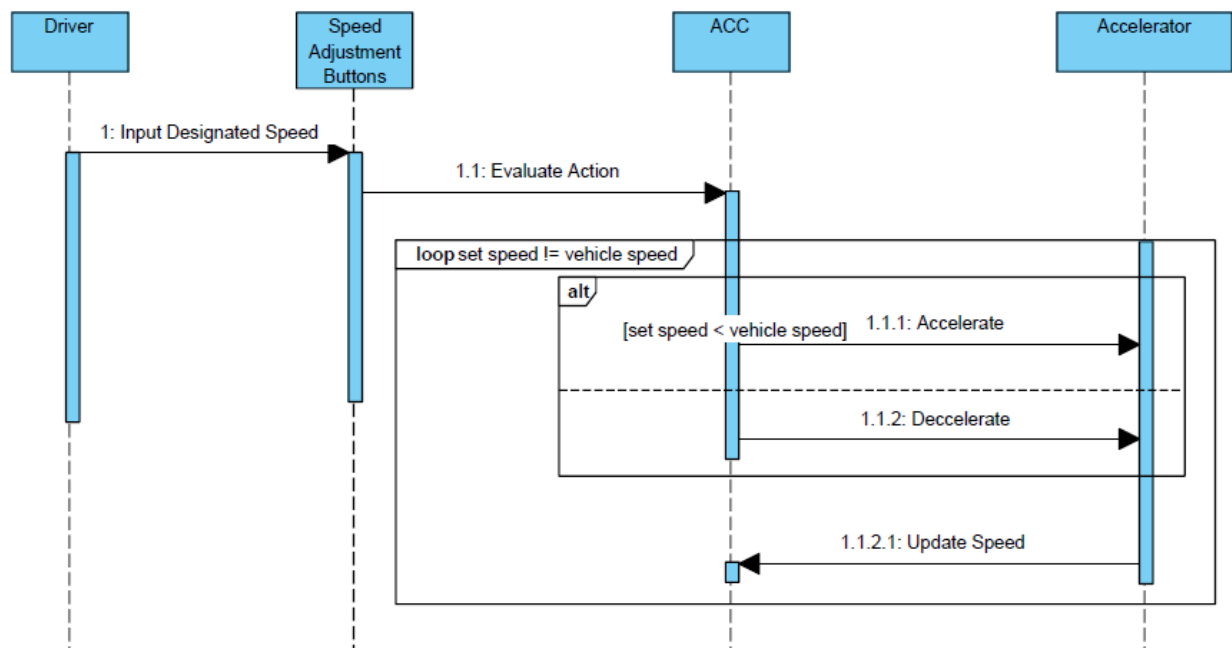
### State Diagram for an imminent crash



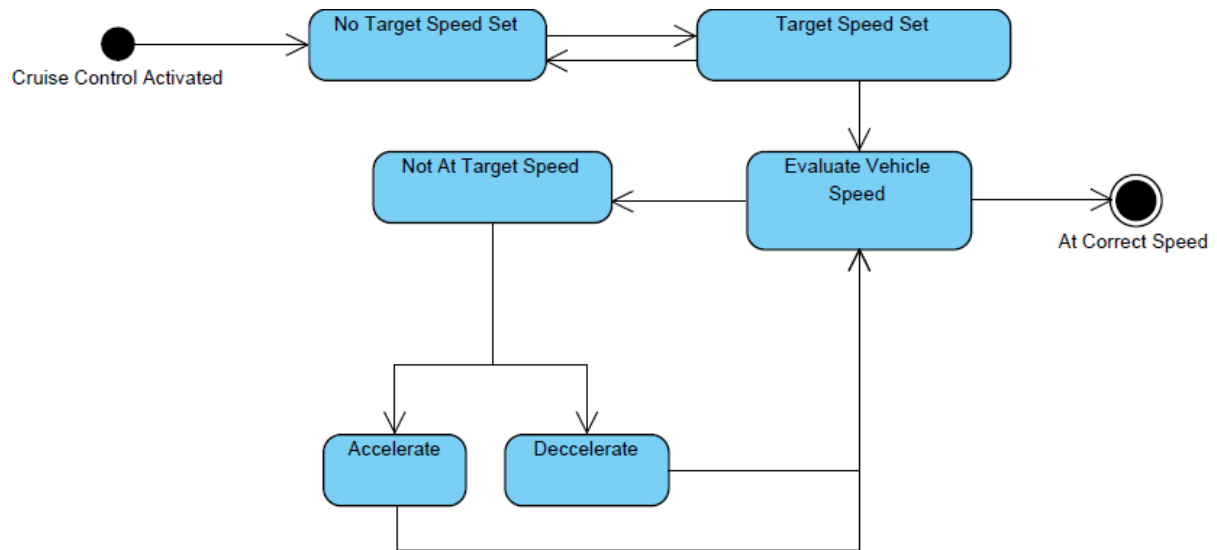
### Sequence Diagram for following and matching a cars speed



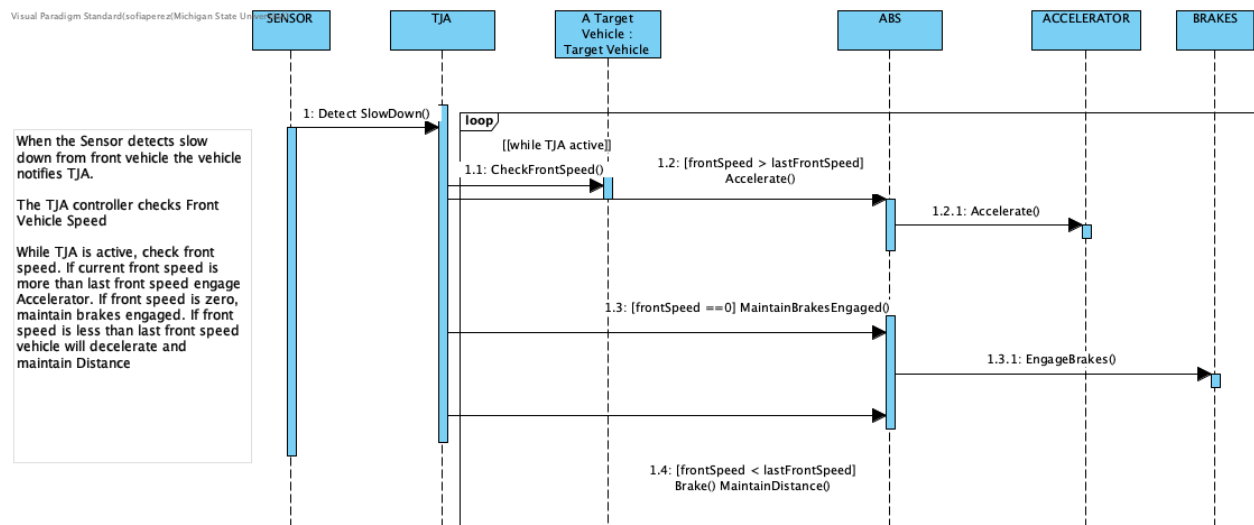
State Diagram for following and matching a cars speed



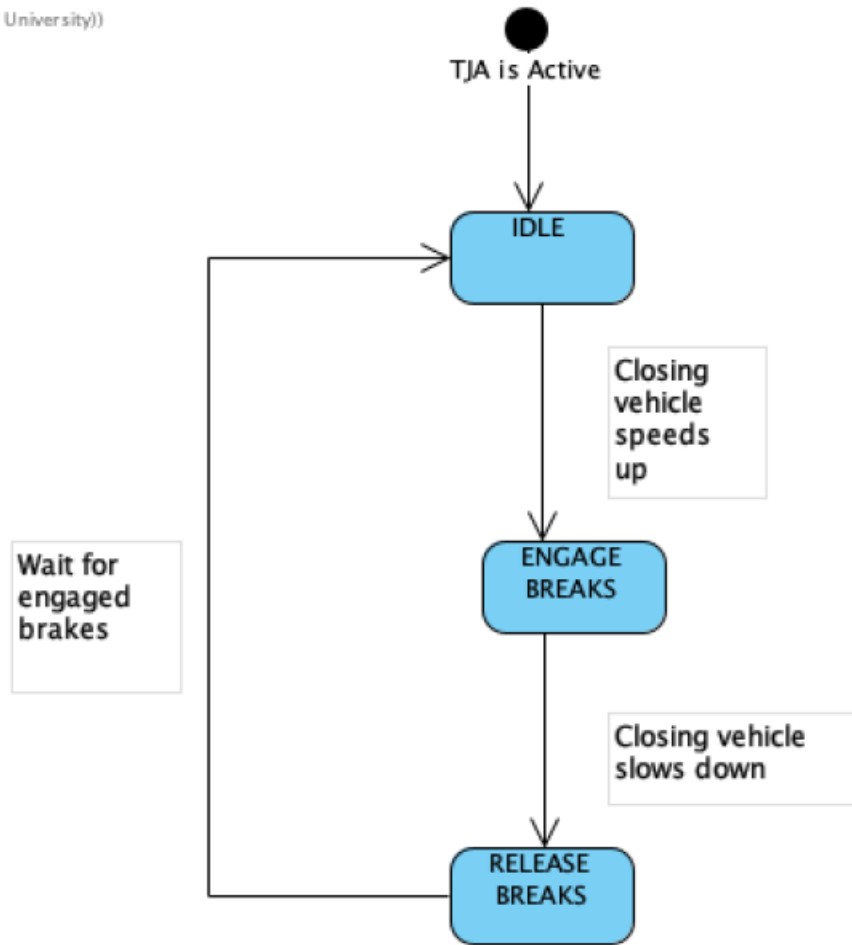
Sequence Diagram for speed changes



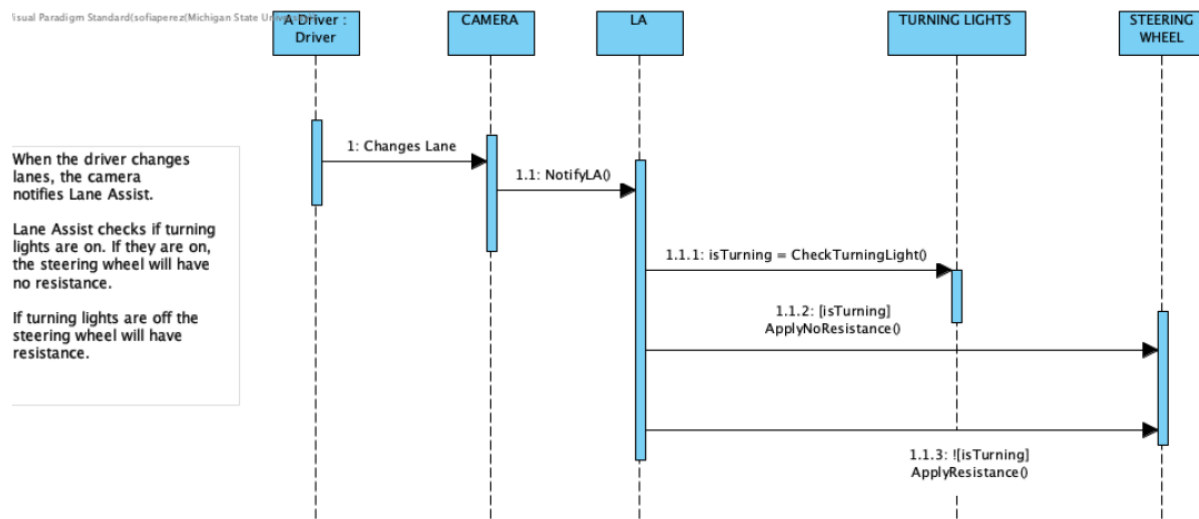
State Diagram for speed changes



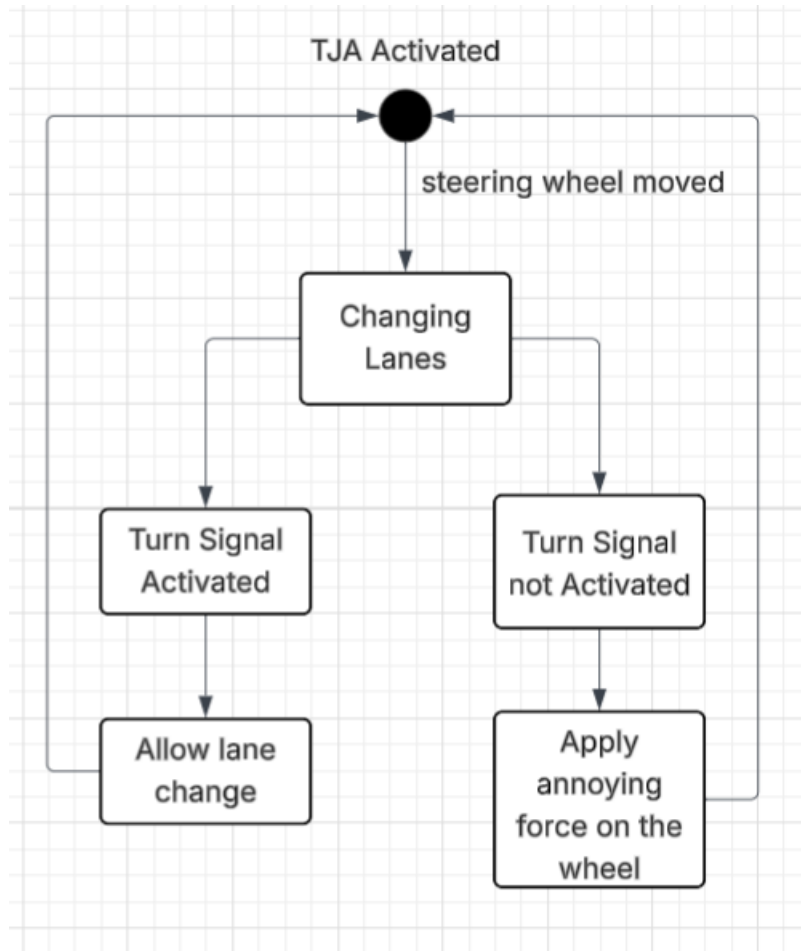
Sequence diagram for stopping the vehicle



State Diagram for stopping the vehicle



Sequence diagram for changing lanes



State diagram for changing lanes