fortiss

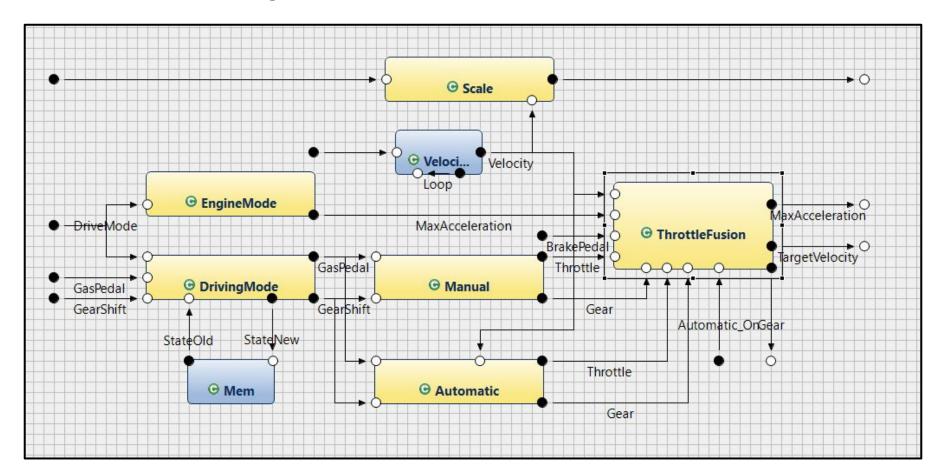
Platooning Team

AF3 Models May 2, 19

Content

- Manual Driving
- Driver Assistance
 - Lane Keeping
 - Adaptive Cruise Control

Manual Driving



Manual Driving

Inputs

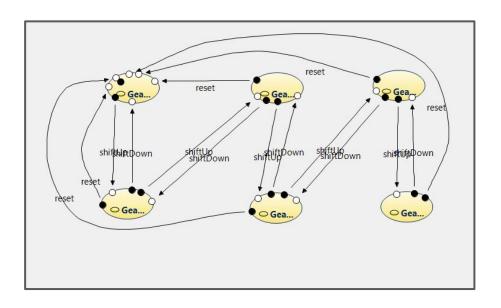
- ── SteeringWheel
- — DriveMode
- — GasPedal
- — GearShift
- — Automatic_On
- BrakePedal

Outputs

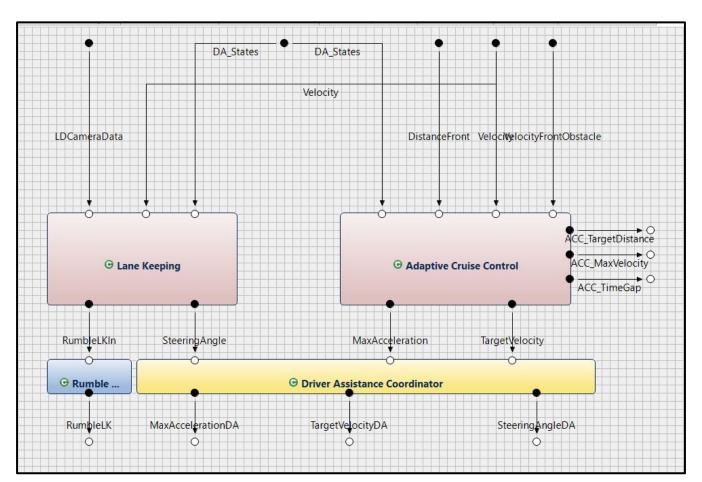
- → SteeringAngleMD
- → MaxAccelerationMD
- → ☐ TargetVelocity
- Gear

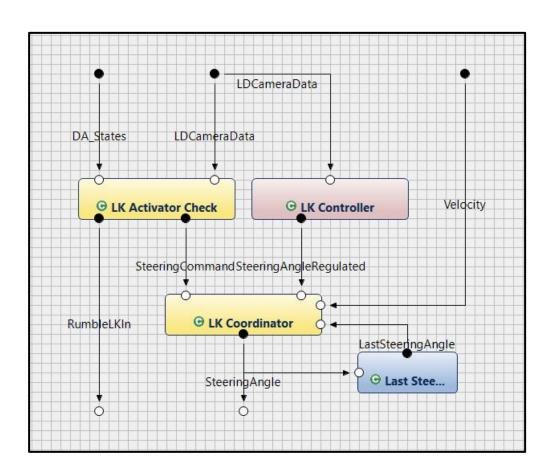
Manual Driving

Gears



Driver Assistance





Inputs

● — DA_States

■ — LDCameraData

● — Velocity

● — GearShift

● — Velocity

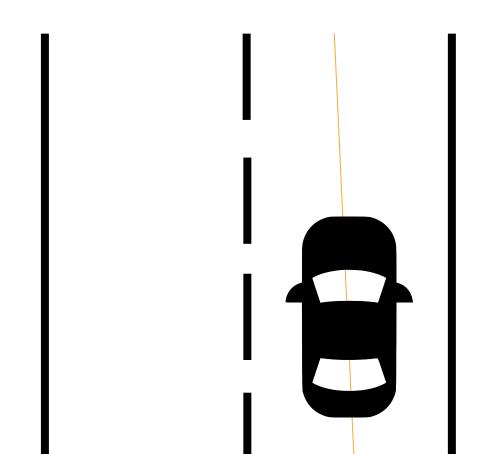
● — Automatic_On

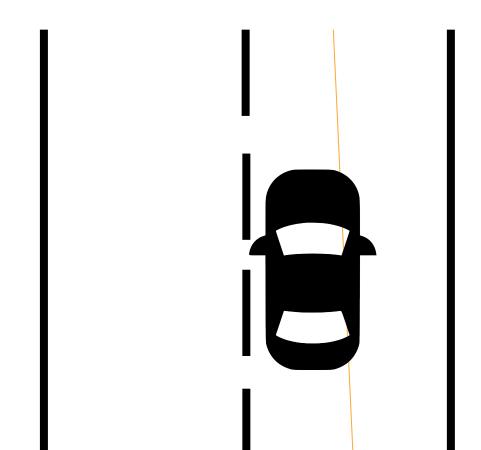
■ BrakePedal

Outputs

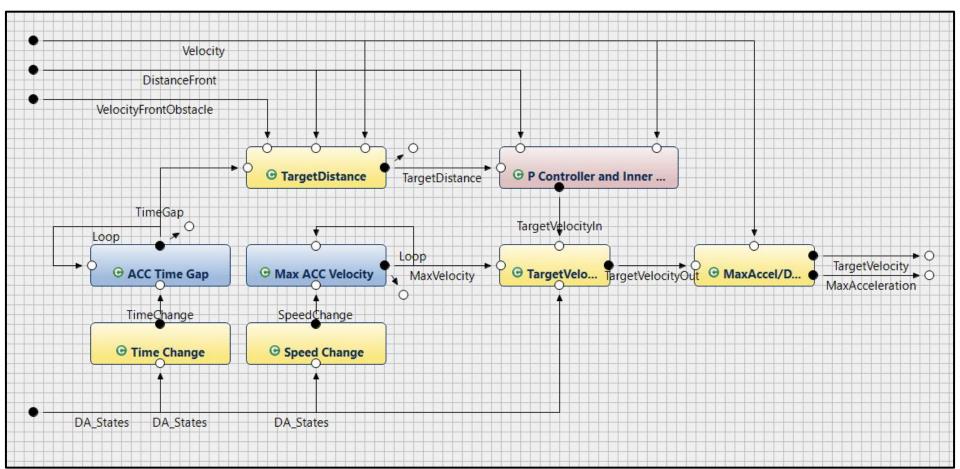
→ ○ SteeringAngle

— O RumbleLKIn





Adaptive Cruise Control



Adaptive Cruise Control

| Inputs | Outputs |
|------------------------------|------------------------|
| ● | ——→ ○ ACC_TimeGap |
| ● ── Velocity | ——→ ○ ACC_MaxVelocity |
| ● | → ○ ACC_TargetDistance |
| ● ──── VelocityFrontObstacle | ── → ○ TargetVelocity |
| | ── |