## PerceptionModule

+ timer: int= 0
-MAX\_TIME:const int=6

+processCameraData(CameraData& cameraData):void +processLidarData(LidarData& lidarData):void +processGPSData(GPSData& gpsData, double& speed, double& direction):void +incrementTime():void

## ControlModule

-currentGPS:GPSData -destinationGPS:GPSData -perceptionModule:PerceptionModule -planningModule: PlanningModule

+printStatus():void
+isWithin25km():bool
+printStatus():void
+getGPSData():GPSData
+calculateDistance():double
+getPlanningModule():PlanningModule
+getPerceptionModule():PerceptionModule

## AutonomousDrivingSystem

-controlModule:ControlModule

PlanningModule

+planRoute(GPSData& gpsData, GPSData& destGPSData, CameraData& cameraData, LidarData& lidarData):void