ACC: Adaptive Cruise Control

A cruise control system for vehicles which controls longitudinal speed. ACC can maintain a desired reference speed or adjust its speed accordingly to maintain safe driving distances to other vehicles.

Ego

A term to express the notion of self, which is used to refer to th vehicle being controlled autonomously, as opposed to other vehicles or objects in the scene. It is most often used in the forn ego-vehicle, meaning the self-vehicle.

FMEA: Failure Mode and Effects Analysis

A bottom up approach of failure analysis which examines indivi causes and determines their effects on the higher level system.

GNSS: Global Navigation Satellite System

A generic term for all satellite systems which provide position estimation. The Global Positioning System (GPS) made by the United States is a type of GNSS. Another example is the Russiar made GLONASS (Globalnaya Navigazionnaya Sputnikovaya Sistema).

HAZOP: Hazard and Operability Study

A variation of FMEA (Failure Mode and Effects Analysis) which u guide words to brainstorm over sets of possible failures that ca arise.

IMU: Inertial Measurement Unit

A sensor device consisting of an accelerometer and a gyroscope The IMU is used to measure vehicle acceleration and angular velocity, and its data can be fused with other sensors for state estimation.

LIDAR: Light Detection and Ranging