

중간발표

장준민 장지훈 이예담

KMU EE

November 28, 2025

Constraints we kept

About Vehicle

$$(0 < \text{VehicleSpeed} \leq 5.5) \wedge \\ (\text{InitialSpeed} = 5.5) \wedge \\ \text{UseAllowedSensor} \wedge$$

About Task

$$(\text{DetectChild} \implies \text{Stop}) \wedge \\ (\text{DetectRedLight} \implies \text{Stop}) \wedge \\ \text{LaneKeeping} \wedge \\ \text{Parking} \wedge$$

Implementation (Briefly)

- Matlab Function block 사용 안함
- 기능 별로 모듈화 (for readability)
- Sensor data 만을 활용해서 차량을 제어함
- LKAS Module은 그대로 사용
 - as black box

Demo Video

Demo Video (Click)