Congratulations!

Module 7, Lesson 4
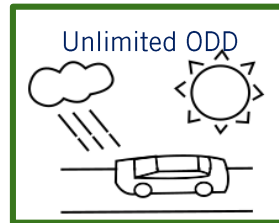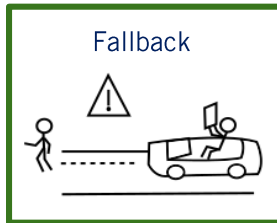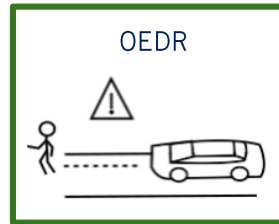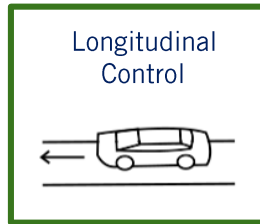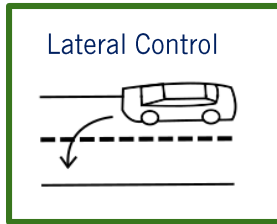
UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING
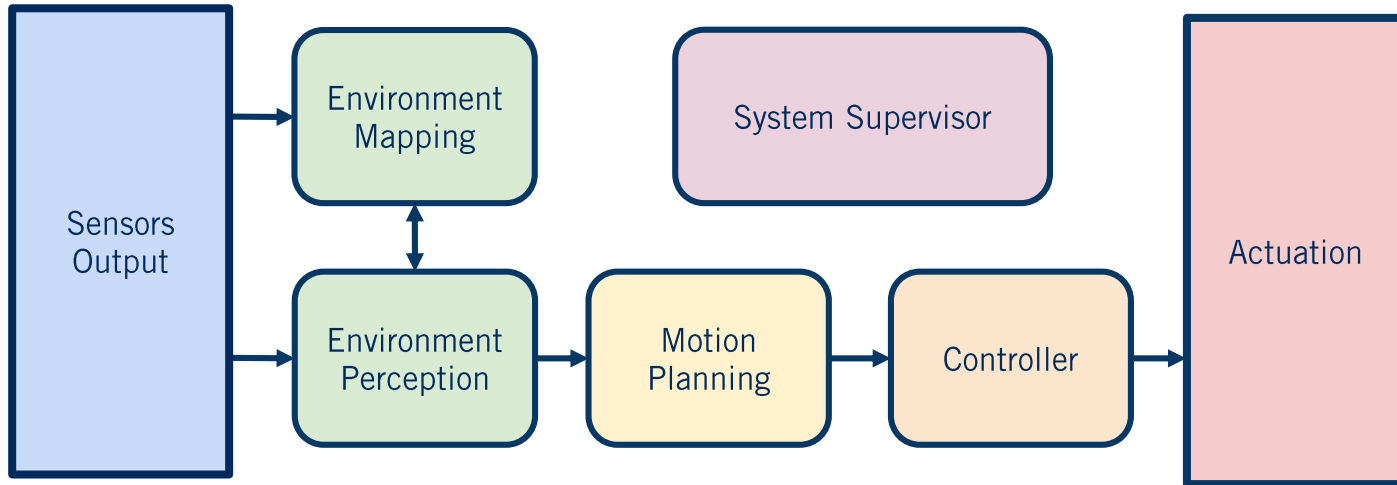
Module 1

- Taxonomy of driving automation
- Requirements for perception
- Driving decisions and actions

Level 5 Autonomy

Lateral Control

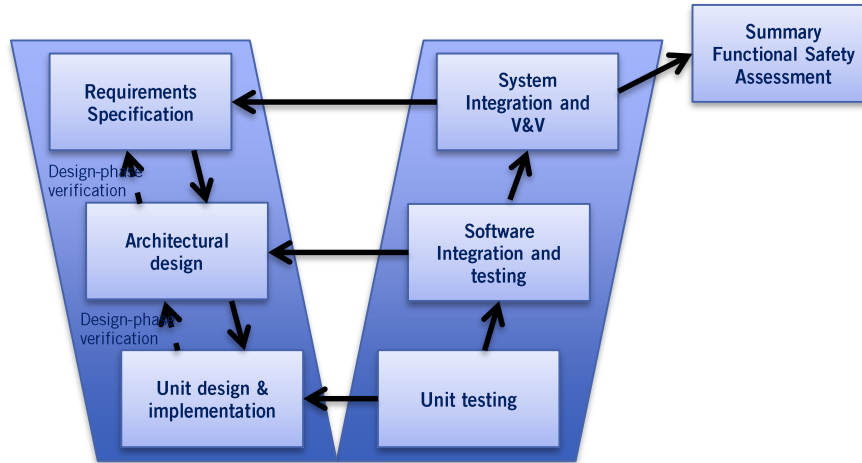Longitudinal Control

OEDR

Fallback

Unlimited ODD

Module 2

- Hardware and software architectures
- Sensor configurations
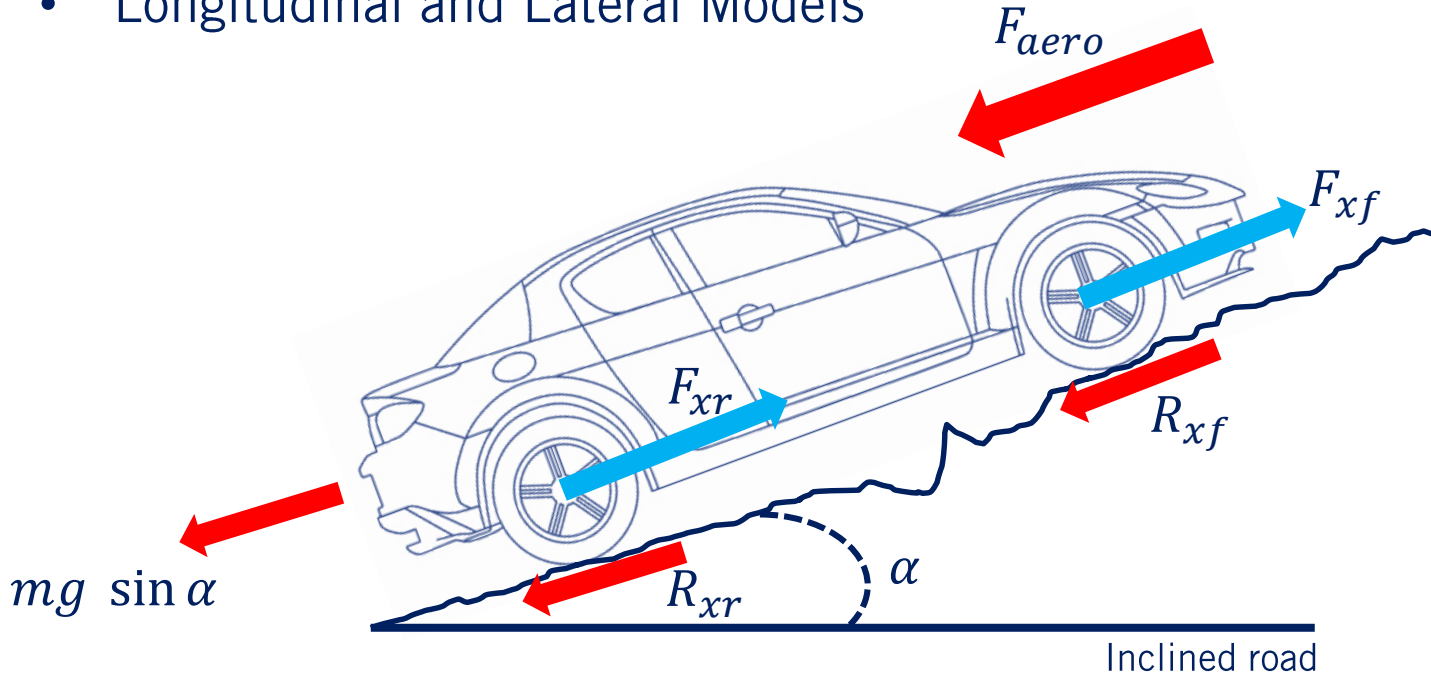- Environment representations

Module 3

- Autonomy failures
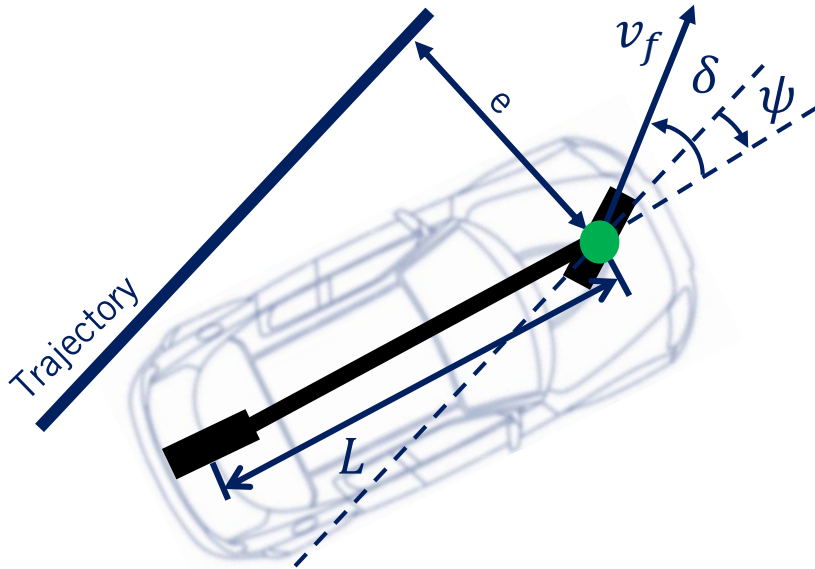- Industry approaches
- Safety assessment methods

ISO 26262

Module 4

- Kinematic and Dynamic Modeling
- Longitudinal and Lateral Models

F_{aero}

F_{xf}

F_{xr}

R_{xf}

$mg\ \sin \alpha$

R_{xr}

α

Inclined road

Module 5/6

- Longitudinal and Lateral Control
- PID, Feedforward, Model Predictive Control

Module 7

- Control on a racetrack in Carla!