### Software Architecture

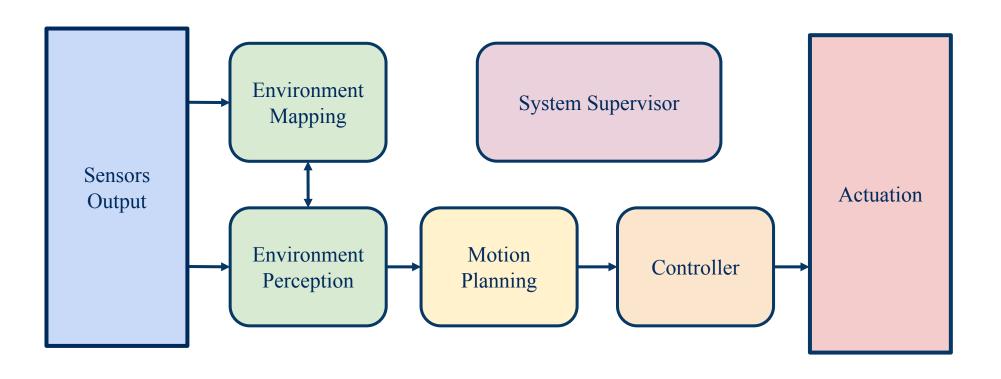
Course 1, Module 2, Lesson 3



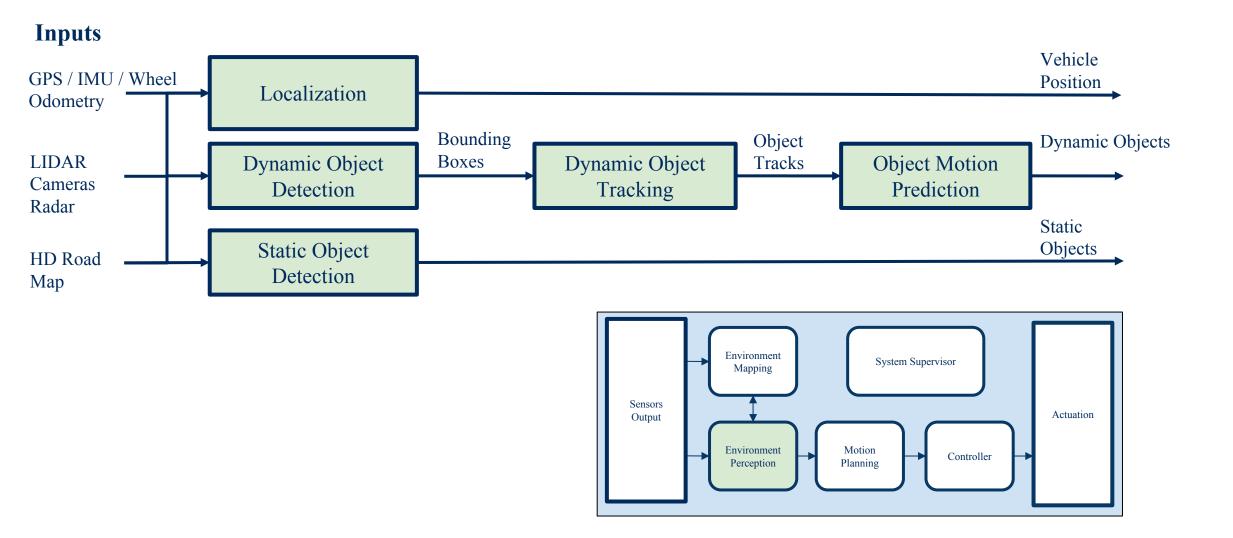
### Learning Objectives

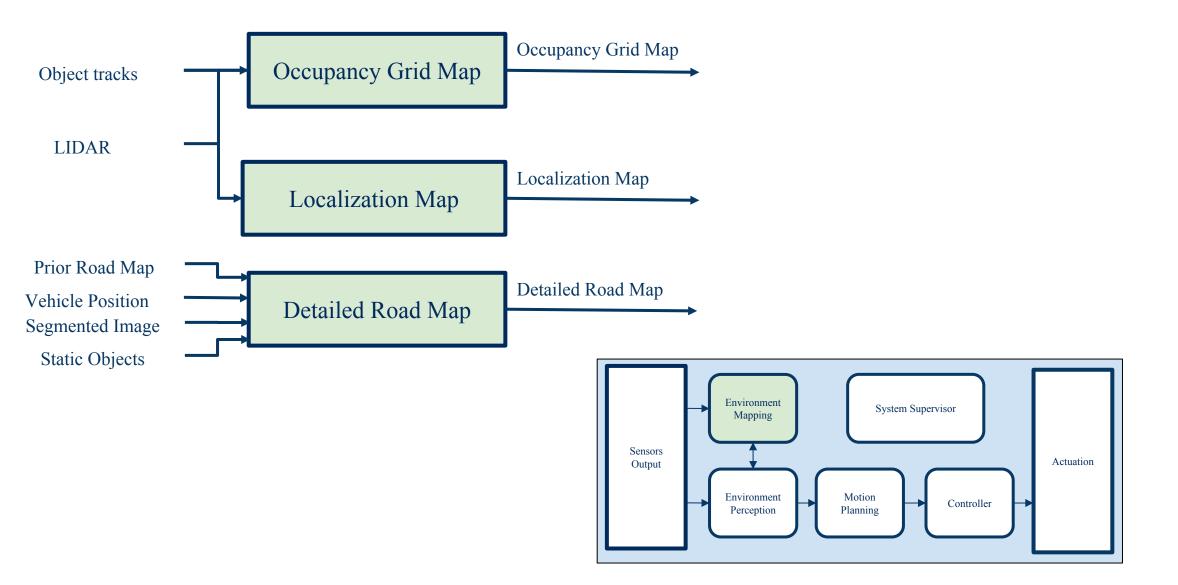
- Describe the basic architecture of a typical self-driving software system
- Identify the standard software decomposition
  - Environment Perception
  - Environment Mapping
  - Motion Planning
  - Controller
  - System Supervisor

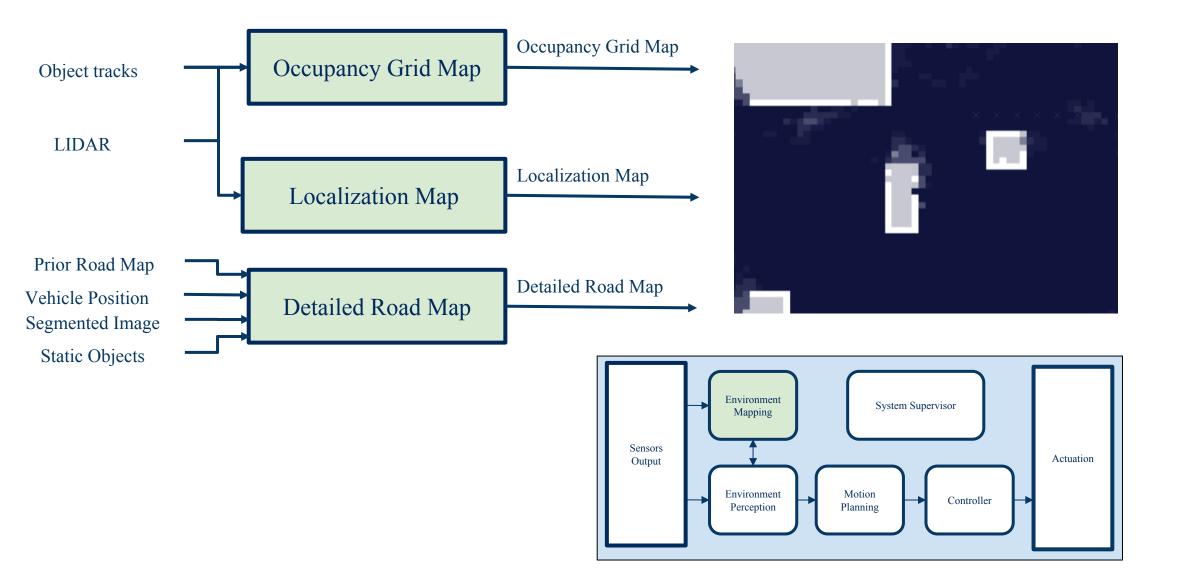
# Software Architecture | High-level

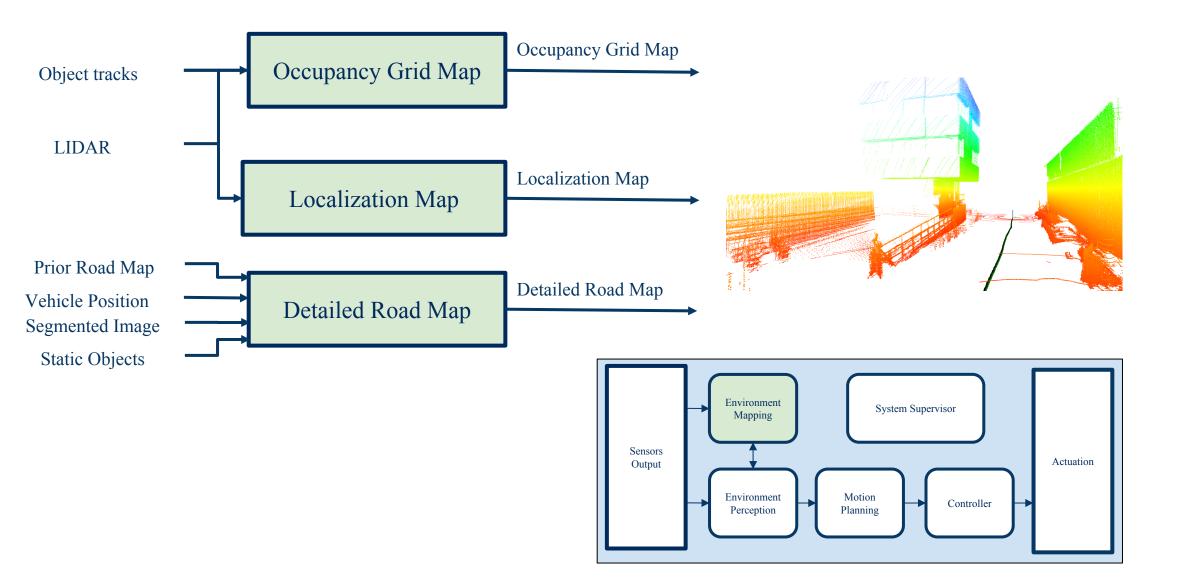


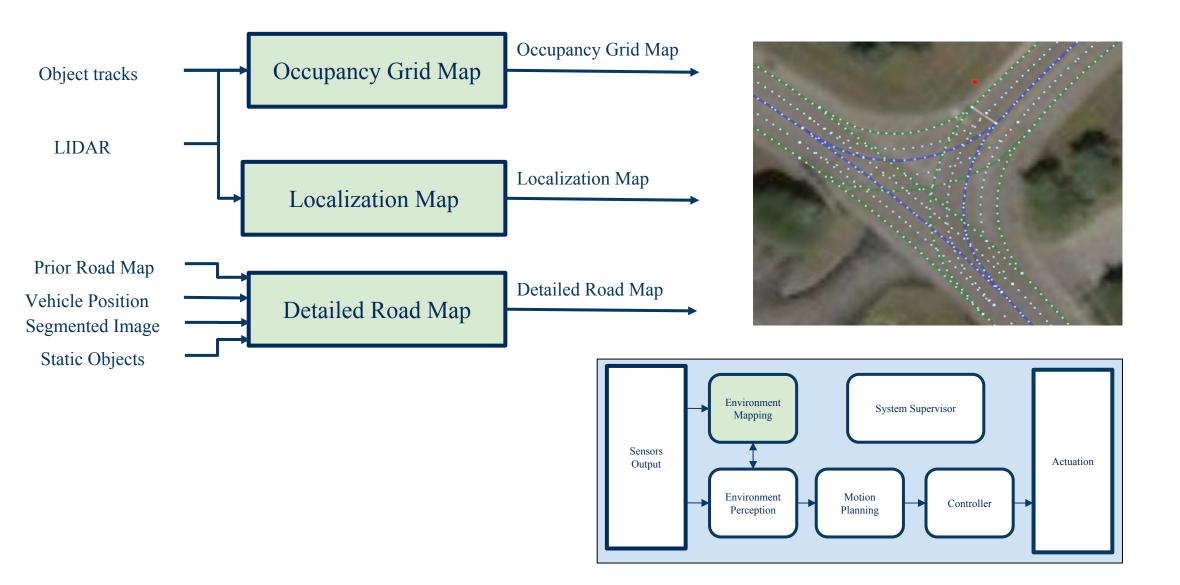
#### Software Architecture | Environment Perception

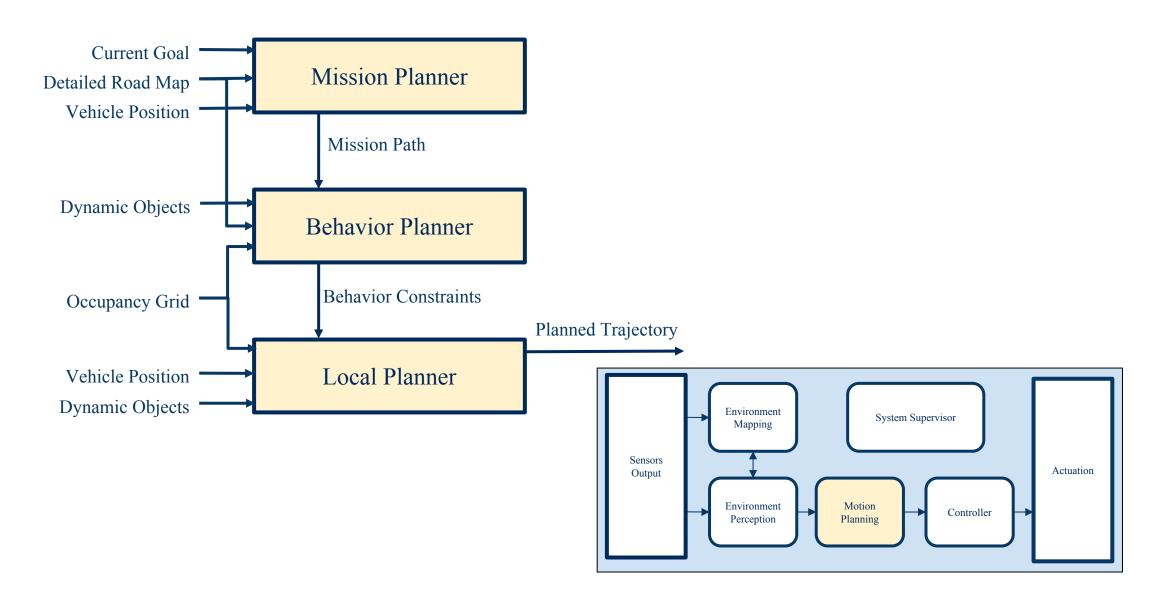


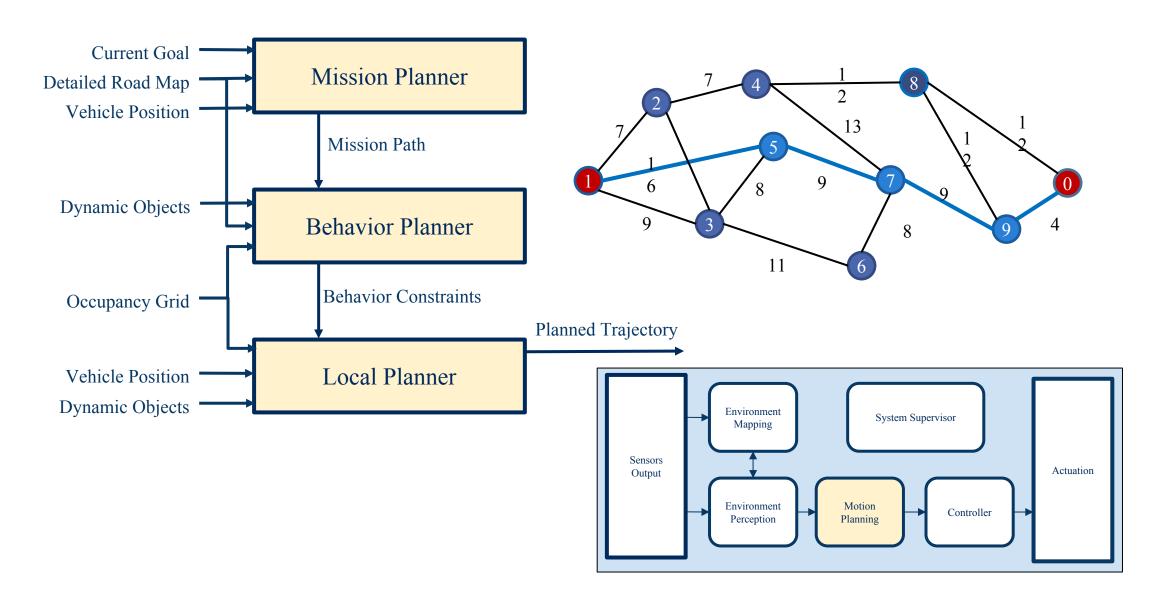


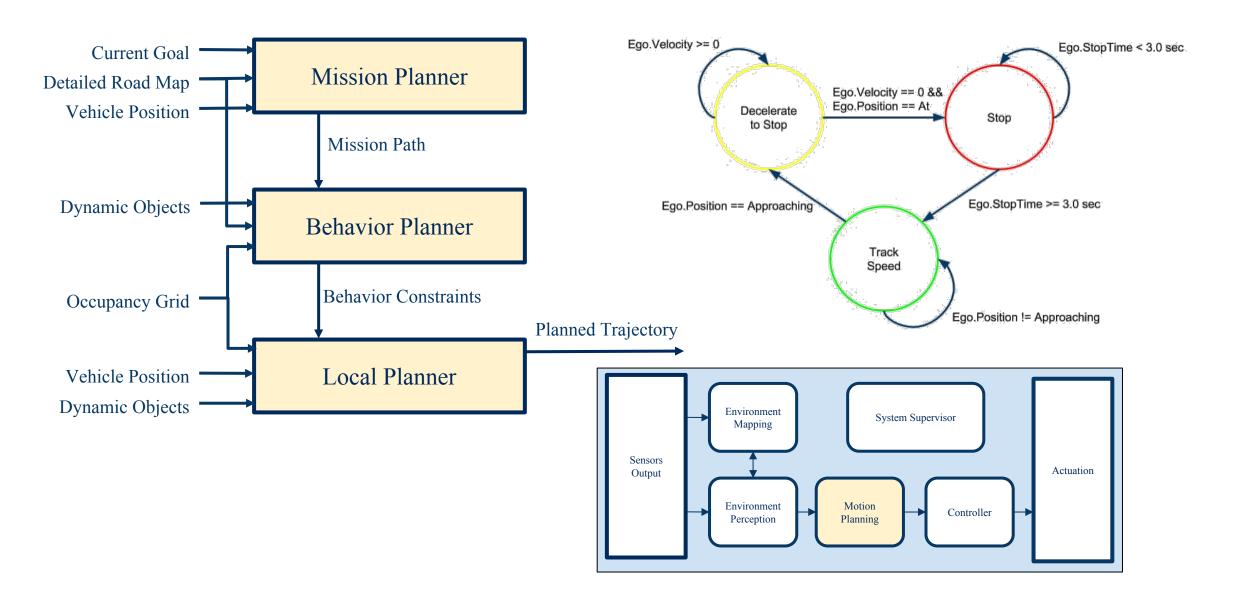


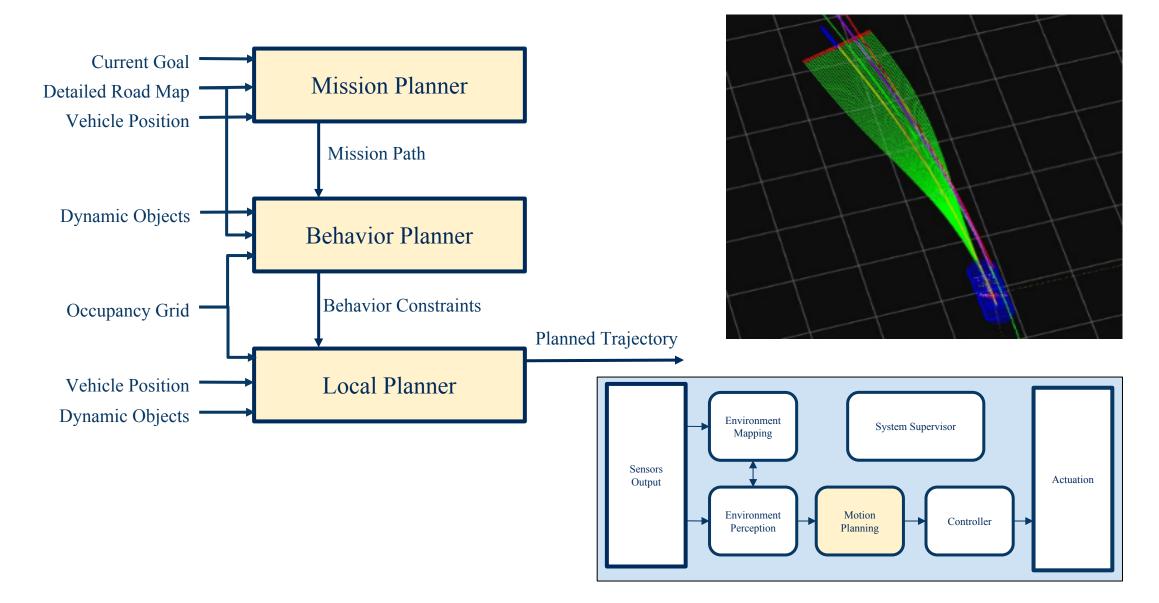




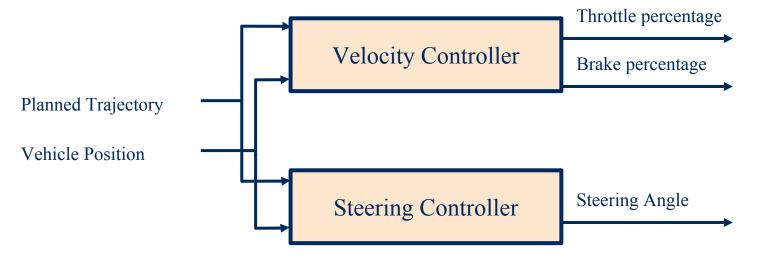


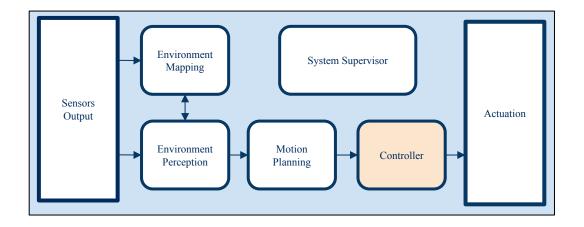




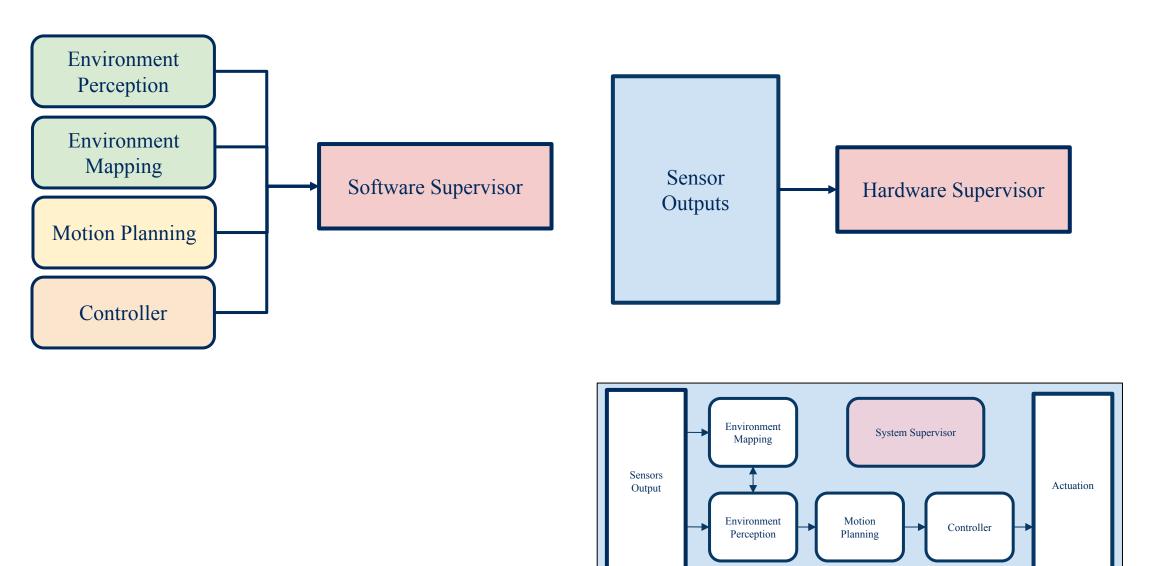


## Software Architecture | Vehicle Controller





# Software Architecture | System Supervisor



### Summary

- Describe the basic architecture of a self-driving software system
  - Environment Perception
  - Environment Mapping
  - Motion Planning
  - Controller
  - System Supervisor
- Next: Closer look at Environment Mapping