Software Architecture

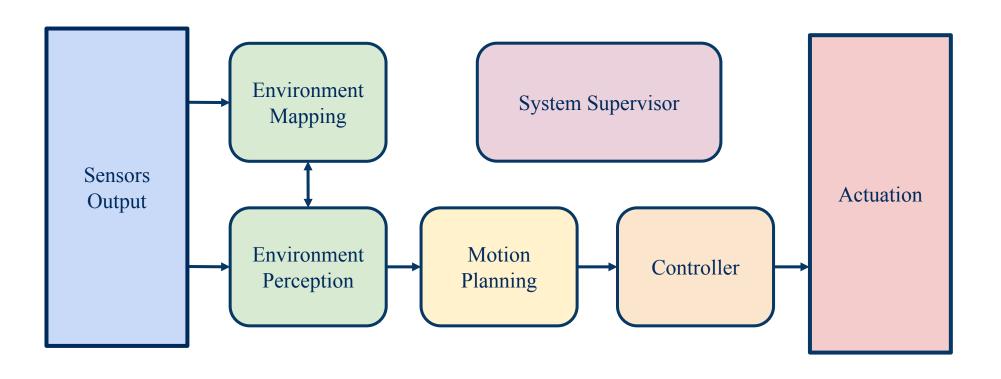
Course 1, Module 2, Lesson 3



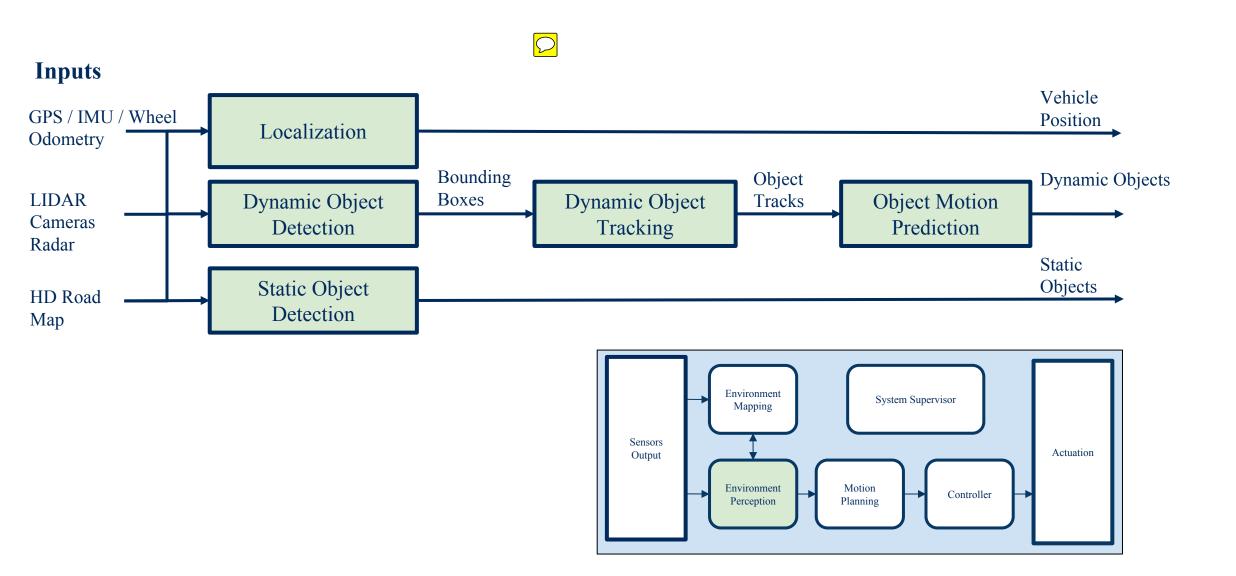
Learning Objectives

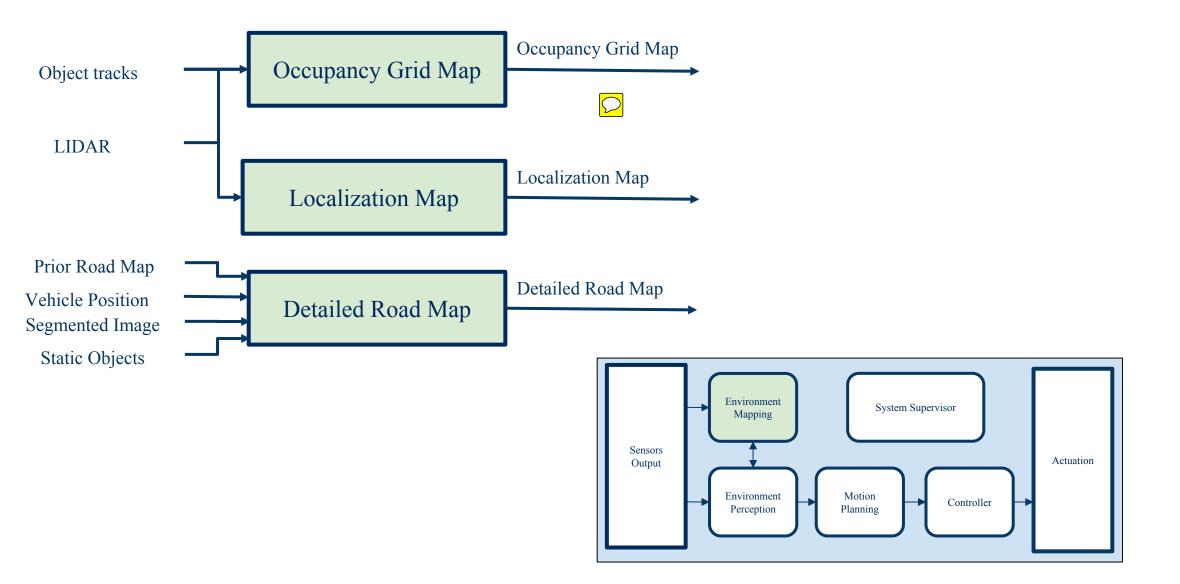
- Describe the basic architecture of a typical self-driving software system
- Identify the standard software decomposition
 - Environment Perception
 - Environment Mapping
 - Motion Planning
 - Controller
 - System Supervisor

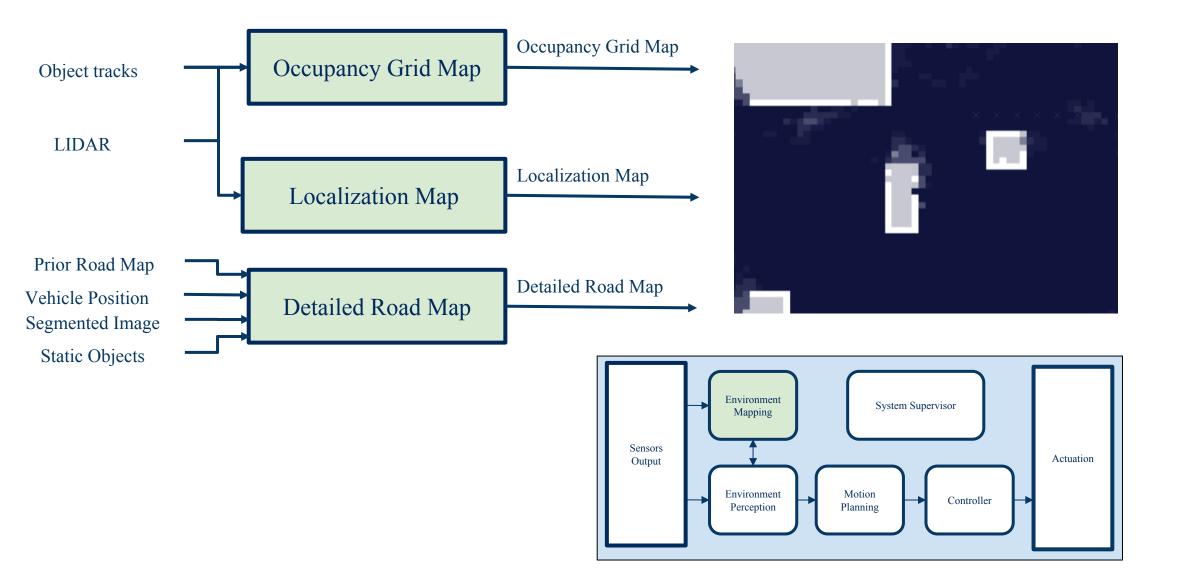
Software Architecture | High-level

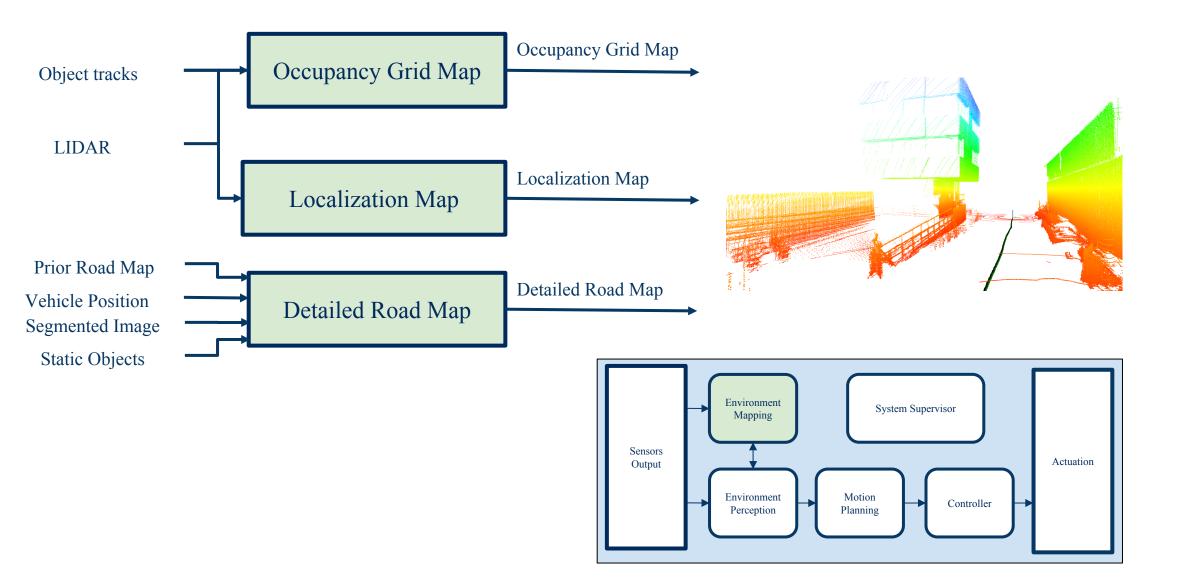


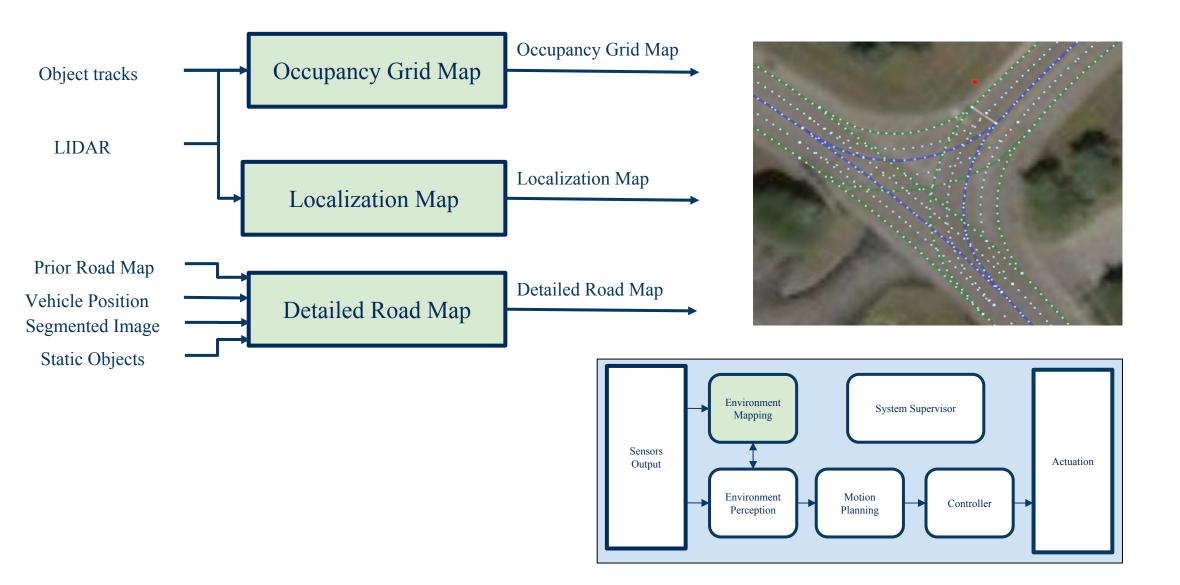
Software Architecture | Environment Perception

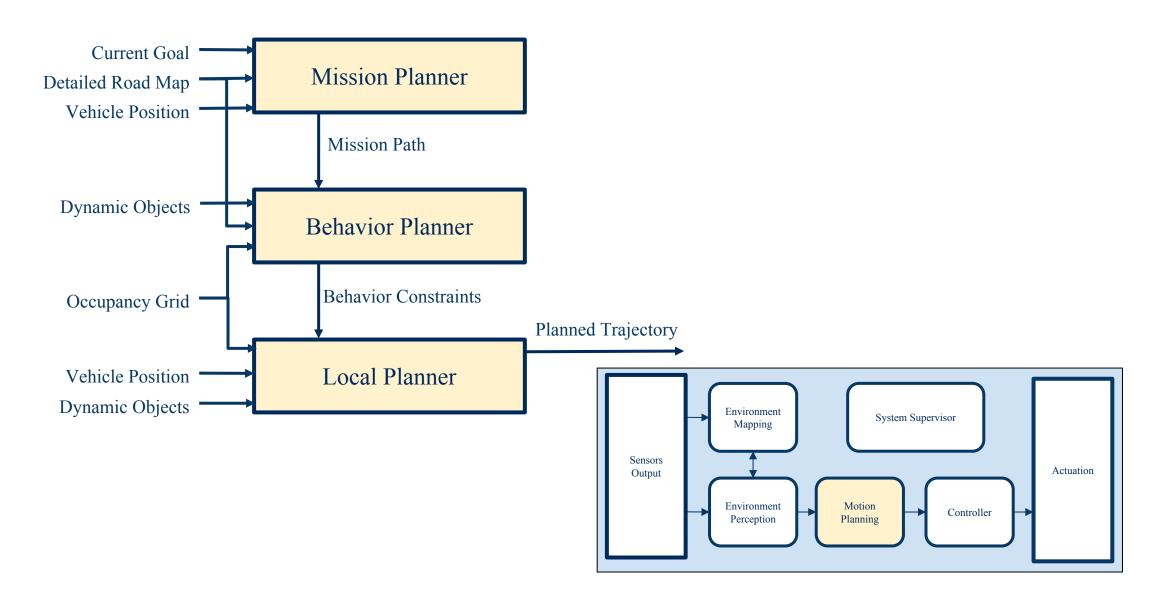


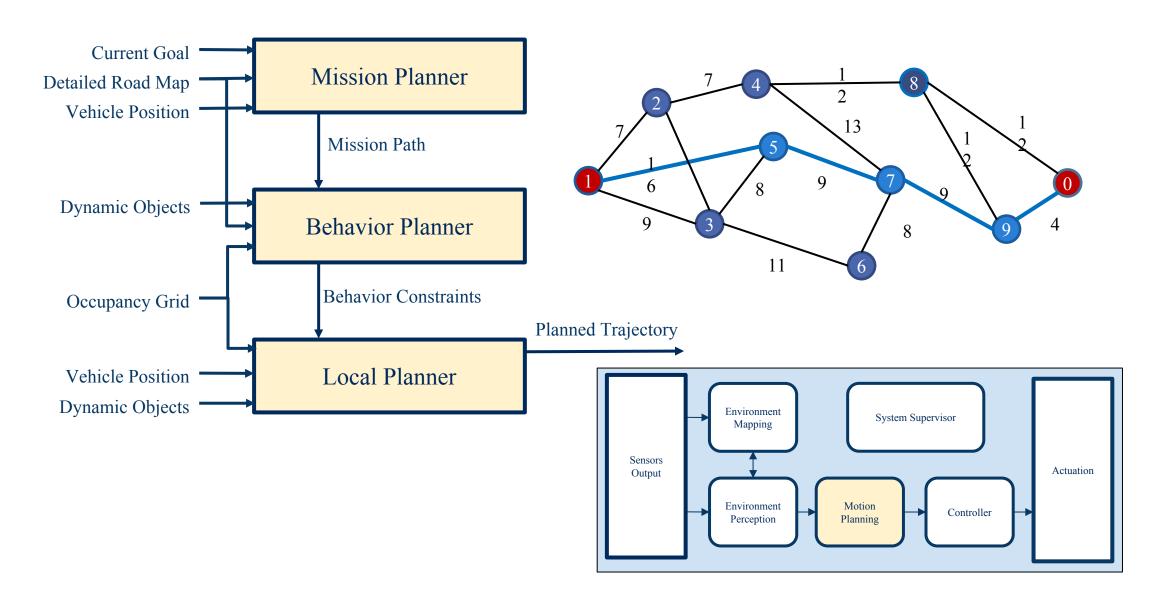


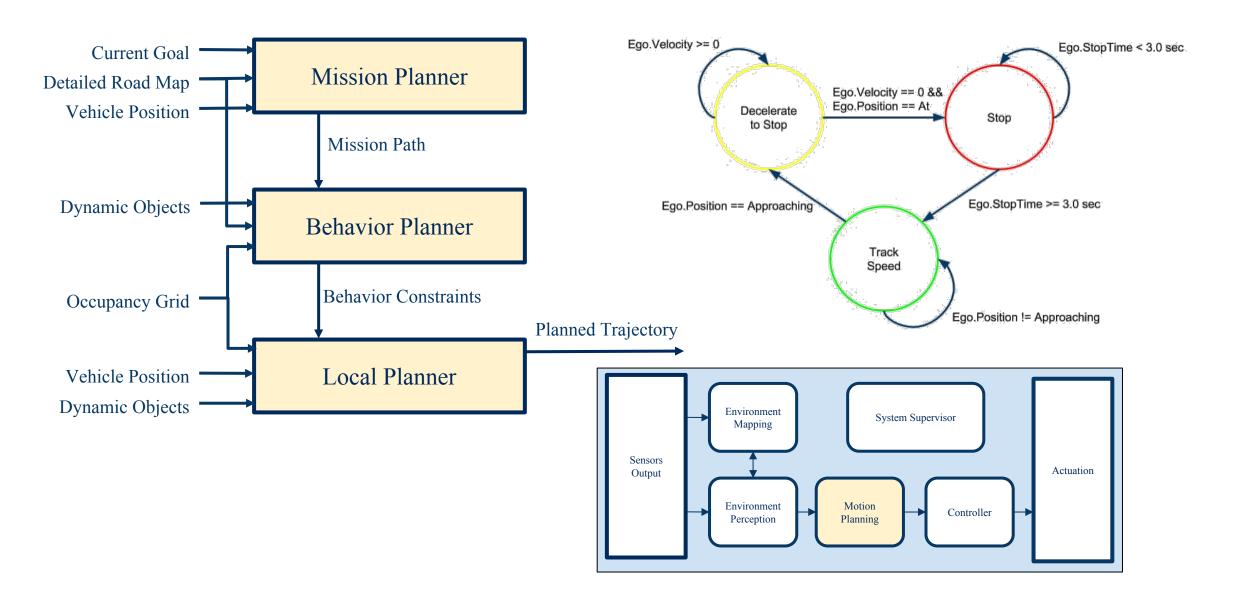


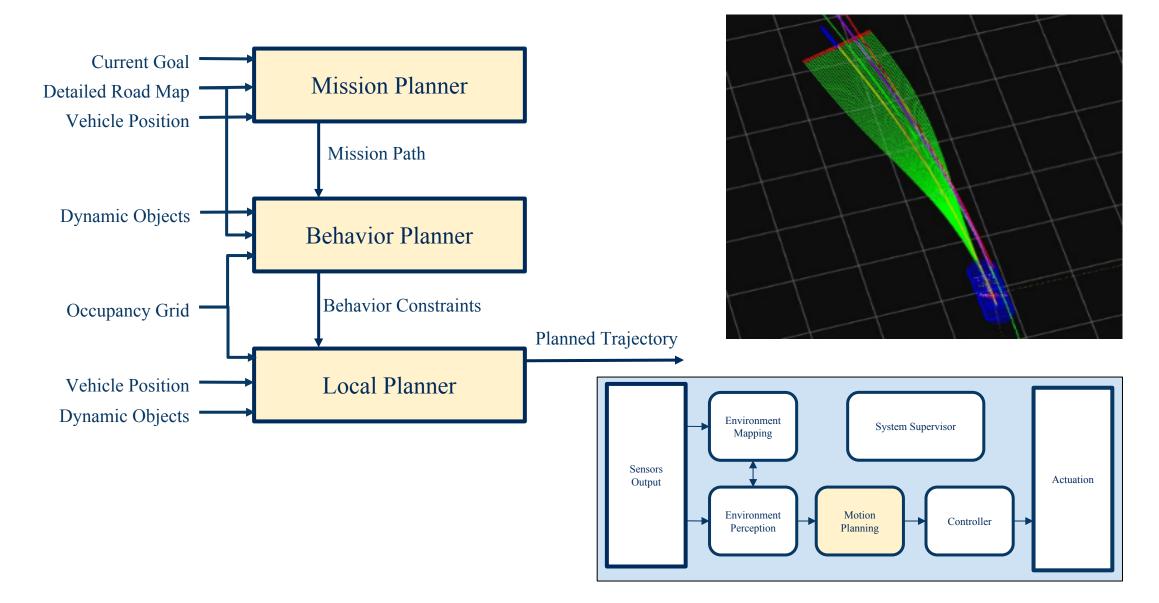




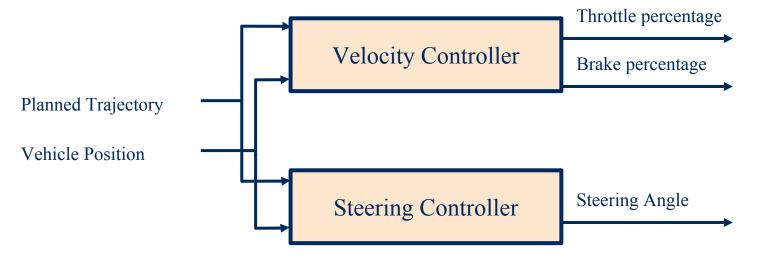


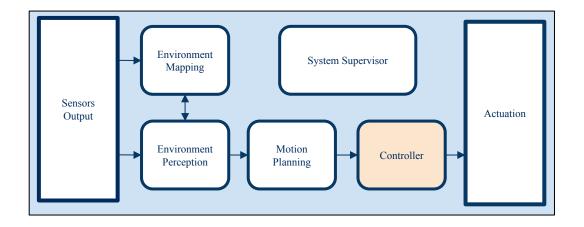




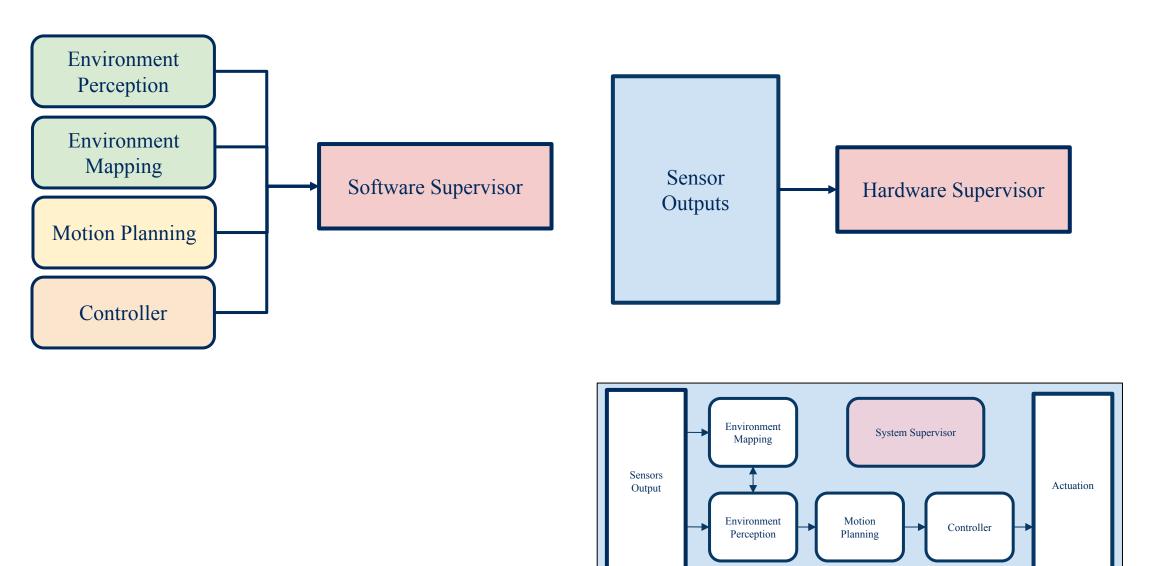


Software Architecture | Vehicle Controller





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