

CPE 470/670 – Autonomous Mobile Robots

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Homework #2

Due: December 8

- 1. [10 points]** Describe the difference between robot control using a horizontal decomposition and a vertical decomposition.
- 2. [10 points].** Describe how activities can be sequenced in the Subsumption Architecture, without using explicit communication “wires” between the task-achieving layers.
- 3. [10 points].** Describe at least two principles of good design of a behavior-based control system.
- 4. [10 points]** . Describe briefly how Toto the robot **used a map to navigate** from a location to another. Give one advantage of using such a method.