

Team Assignment 6 (100 points) - Component-Level Blueprint

A. Instruction:

From the top solution design and its description for functions and operations, selection for actual hardware components has to be performed by which actual implementation proceeds. Component selection includes, but not limited to, (a) a functional schematic/block diagram, (b) desired component characteristics which would realize the functions required to perform, (c) search for such components, and (d) compare them and select the best component, and (e) provide purchasing information or store link for the selected component. **[EXAMPLE for part (b)]** For collision avoidance function, the part (b) may list as: "a component which is capable of detecting an object within (or farther than) 3 ft distance, with detection speed less than 1 ms. The smallest object to be detected is 3 x 3 ft."

B. Score Distribution and Rubric

	Point distribution for Component search and selection
20 pts	A function block or schematic diagram for the top solution design is provided. [Sufficiently {20}, moderately {10}, insufficiently{5}]
30 pts	Desired component characteristics for each function of solution design are described. [Sufficiently {30}, moderately {20}, insufficiently{10}]
30 pts	Multiple components (for each function) are searched and compared and finally selected. [Sufficiently {30}, moderately {20}, insufficiently{10}]
20 pt	Purchasing information or web store link for each selected component is provided. [Sufficiently {20}, moderately {10}, insufficiently{5}]

C. Submission: Use word processing software with page margin of 1 inch in all sides with font size 11 or 12 in single spacing. One submission from a team is required with the following file name: **TeamName_Assign6.xxx.**

D. Submission due: Check the webpage

E. Point Deduction on Late Submission (or **Maximum score by submission date**)

Submission Time/Date	Maximum score
By 5:00pm submission date (Mon)	100
By 5:00pm submission date + 1 (Tue)	70
By 5:00pm submission date + 2 (Wed)	50
By 5:00pm submission date + 3 (Thu)	20
After the above	0