Assignment

Select one of the following engineering designs.  You may assume that the need to solve the problem has been researched and justified.

* A design or system that monitors and logs driver stress during weekday commutes.
* A design or system that identifies the risk of concussion among football players or athletes in similar sports.
* A design or system that identifies type and strength of RF signals in a home and maps type and strength in different locations in the home.
* A design or system that monitors the tone and frequency of a dinner party conversation and generates a fake phone call to allow a cordial ending to the dinner.
* A design or system that watches a house for potential burglars as well as common forms of damage (water, wind, objects) while the owner is away for an extended period of time.
* A design or system that senses anxiety in a dog or cat left behind at home and offers soothing images, scents, food, or other incentives designed to decrease the anxiety of the animal.

Identify at least 15 potential solutions (from the obvious to the bizarre) that may be used to solve the problem through engineering design. List each solution with a 1-3 sentence explanation of how the solution addresses the problem.   Create a handwritten or word processed mind map that expresses these solutions and follows the guidelines for mind mapping.

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