

Wednesday Challenge Form

Group Members: Ara, chris, alex, jason

Problem Statement: make a device that can

Differentiate between a dog and a cat

Approach: we discussed various avenues of

Inquiry. First we looked at food or teeth to find a difference. However Both avenues could have issues in application. So we concluded that We should have a pressure sensor to distinguish if the animal is a dog Or a cat. The dog or cat would have to step on a pressure plate.

Because a dog's and a cat's paws vary in shape and conformity, we can use the idiosyncrasies between two samples to program a machine to Identify if a foot sample is either a dog or cat. Therefore, a fluid-filled pressure sensor would be used to distinguish various points on a paw sample. After the data is compared with a database that holds information regarding dog and cat paws, the machine can print out a percentage possibility of the sample being a dog or a cat.

Solution: a pressure sensor would be used to Identify a dog or cat sample.

Lessons Learned: good collaboration and Teamwork can go a long way.