PiFeed: Feed your pets with a Raspberry Pi

Danny Duangphachanh, Daniel Friedman, Igor Janjic

Bradley Department of Electrical and Computer Engineering, Virginia Tech [ECE 4564]

Objectives

The purpose of PiFeed is to be able to remotely monitor and control a fish tank and cat feeder from the internet. The ability to maintain a healthy eating schedule for pets is a concern for members of our group, as well as many others who travel or are away from home for an extended amount of time. By euccessfully implementing a pet feeding and monitoring system using Raspberry Pis, the stresses of animal care while away will be a thing of the past!

- The system is composed of two Raspberry Pi's and one computer.
  - Rasp1 collects information about the fish tank and controls the fish feeder.
  - Rasp2 collects information about the cat and control the cat feeder.
- A user will interface with the two Raspberry Pi's with a client application
  - It is able to monitor both the aquarium and the cat feeder using Pi cameras.
  - It also allows the user to customize the feeders and control them manually.
  - We will consider the system successful if our pets can be fed remotely.

Introduction

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Placeholder

Image

Hardware Description

The following materials were required to complete the research:

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- Eu facilisis est tempus quis
- Duis porta consequat lorem
- Eu facilisis est tempus quis

The materials were prepared according to the steps outlined below:

1. Curabitur pellentesque dignissim
2. Eu facilisis est tempus quis
3. Duis porta consequat lorem
4. Curabitur pellentesque dignissim

Methods

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GitHub Page

https://github.com/zergler/PiFeed

Testable Requirements

A completely successful project should demonstrate that the following requirements are satisfied.

- Able to feed the fish locally, remotely, manually and at specific times of the day.
- Able to feed the cat both locally, remotely, manually and at specific times of the day.
- Able to monitor the fish locally and remotely using the Pi camera.
- Able to monitor the cat locally and remotely using the Pi camera.
- Able to view the fish tank sensors locally and remotely.
- Able to view the cat sensors locally and remotely.

Results

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Image

Figure 2: Figure caption

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Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table 1: Table caption

Conclusion

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Additional Information

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- Curabitur pellentesque dignissim
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References

Acknowledgements

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Contact Information

- Web: http://www.university.edu/smithlab
- Email: john@smith.com
- Phone: +1 (000) 111 1111

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