

Smart Camera For Monitoring Animals

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1. Introduction

According to researches, playing with pets is a source of happiness and giving a good impact on health. However, can we always be around with our pets? For pet lovers, it is important to be around and play with their pets. I am making a tool to enable people mostly pet lovers to always monitor their pet's condition and to play with them anytime and anywhere.

2. Research Methods

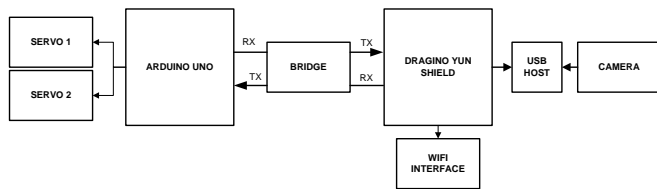


Figure 1. Block Diagram

To implement this project, we used camera, recognition, microcontroller, servo. Step by step how can I implement

- Study Camera as sensor for recognition/movement.
- Study linux in arduino yun
- Study online data with local server in yun

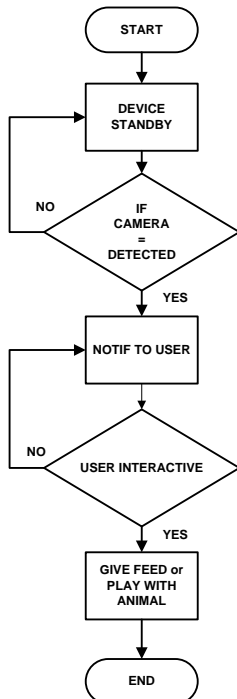


Figure 2. Flowchart

3. Results and Analysis



Camera



Arduino Uno



Yun shield



Servo

Figure 3. Component

Objects that will be detected with movement detection in camera.



Figure 4. Camera installation

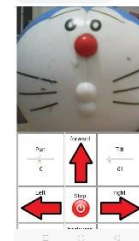


Figure 5. Display via browser

4. Conclusion

Smart cameras can be very useful for people mostly pet lovers. It will enable people to monitor and play with their pets even if they cannot be in a room with them. It will help the pets to stay happy and make ourselves to be happy as we can monitor and play with them as well.

5. References

- <http://arduino.cc>
- <https://wiki.dragino.com/>
- <https://www.designboom.com/technology/arduino-yun-2/>