UCH | UNIVERSIDAD DE CIENCIAS Y HUMANIDADES

FACULTAD DE CIENCIAS E INGENIERÍA ESCUELA PROFESIONAL DE INGENIERÍA DE SISTEMAS E INFORMÁTICA

TRABAJO DE INVESTIGACIÓN PARA OBTENER EL GRADO ACADÉMICO DE BACHILLER EN INGENIERÍA DE SISTEMAS E INFORMÁTICA

Pet food dispenser design using Raspberry Pi

PRESENTADO POR

Vargas Alcantara, Hilary Nicole

Los Olivos, 2020

Pet food dispenser design using Raspberry Pi

Hilary Nicole Vargas Alcantara[a], Alexi Delgado Villanueva[b]

[a] Universidad de Ciencia y Humanidades (UCH). Facultad de Ciencias e Ingeniería. Escuela Profesional de Ingeniería de Sistemas e Informática.

[b] Pontificia Universidad Católica del Perú (PUCP). Ingeniería de Minas

ABSTRACT

A new family dynamic has included a new member as a component, the mascot. However, due to globalization, people have more and more responsibilities, making it difficult for them to be with the animal all the time, leading especially to poor nutrition of the animal as a result. This work provides a solution by using the Raspberry Pi tool to design a prototype food dispenser to improve the feeding of our pets at home. In the application, 3 stages were determined: Prototype Design, Physical Structure Design and Logical Design; making use of the Raspberry Pi. The results of this study showed that the design of the dispenser will have a beneficial social impact. These results could help to facilitate feeding in pets by establishing an automatic dispenser that would benefit family members and especially pets.

Keywords: Automatic dispenser, Food dispenser, Raspberry pi

How to cite this Article:

Vargas, H. N. y Delgado, A. (2020). Pet food dispenser design using Raspberry Pi. *International Journal of Emerging Trends in Engineering Research (IJETER), 8*(4), 1251-1254. https://doi.org/10.30534/ijeter/2020/50842020