

ABSTRACT

Pets are defined as animals that are kept by humans for pleasure and friendship and are an integral part of the daily life of some people. These pets are kept because of their beauty and characteristics. An example of a pet is a cat that has beautiful fur. But the welfare of cats themselves is often underestimated, judging from the number of cases of violence and illegal trade in pets by relevant institutions.

In this Final Project, cat face detection classification was performed by using Webcam to capture object detection in real time and then processed using You Only Look Once (YOLO) object detection method.

The result of this final project is that the device can capture or detect objects, namely cat faces with 100% accuracy, so that the food port will open, and with a delay of 100ms, the servo motor will close again.

Keywords: *Pet, YOLO, realtime, detection.*