**WORD CODE FOR FLOW CHART:**

Start ->

Is power on?

Yes -> Continue

No -> Switch to back up -> is power on?

Yes -> continue

No -> Send alert “power loss”

Is WIFI connected?

Yes -> Continue

No -> Send alert “connection lost”

Is it feeding time?

Yes -> continue

No -> Wait 1 seconds -> loop (loop to is it feeding time)

Is food container low/empty

Yes -> Check weight of food -> Is there enough food

Yes -> Send alert “Low food” -> Turn ----- Red Led on -> continue

No -> Send alert “Food Empty in--- --container, please refill -> Turn blinking Red LED on -> Loop (is food container low/empty)

Turn Motor on -> check portion size via app -> rotate and dispensed food -> continue

Has laser sensor been blocked?

Yes -> Rotate motor -> Continue

No -> Keep dispensing -> Loop (from has sensor been blocked)

Check timer in app -> Is timer up?

Yes -> Continue

No -> Wait 1 second -> Loop (from is timer up?)

Is weight in food bowl = 0

Yes -> Send alert “Feeding complete” -> End Task

No -> is animal presence detected?

Yes – Wait 20 seconds -> Loop (from is weight in food -- --bowl = 0

No -> Send alert “Feeding not complete”