



# Smart Pet Feeder

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AN INNOVATIVE SOLUTION FOR  
AUTOMATIC PET FEEDING

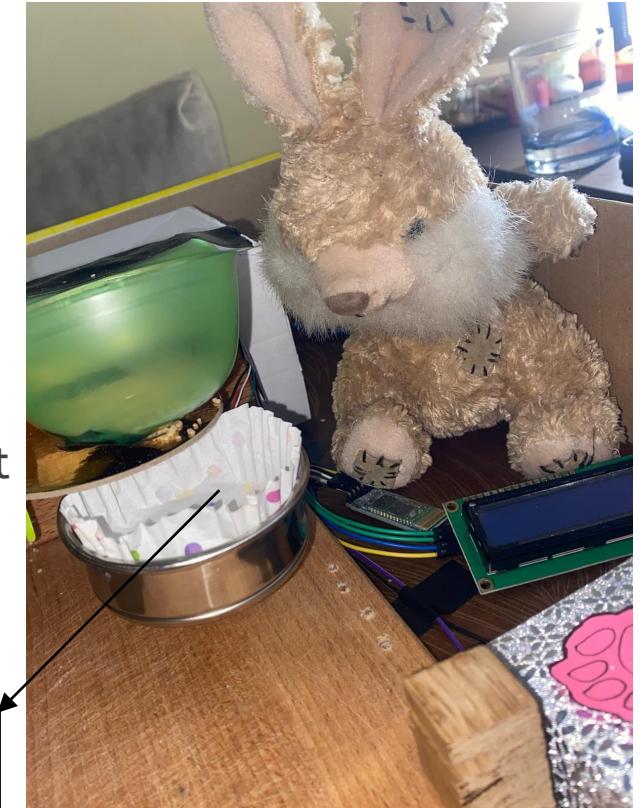
Daboc Ariana-  
Daria

# Introduction & Project Objectives

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- Many pet owners forget to feed pets on time or are away from home.
- Pets can be overfed or underfed without regular schedules.
- **Solution:** Automatic feeder that:
  - ❖ Allow remote and manual control
  - ❖ Control the exact quantity of food the owner want to give to the pet
  - ❖ With the help of the LEDs we know whether the device is working or not
  - ❖ The buzzer alerts us when the device is feeding

Empty bowl, sad  
bunny



# Components

➤ **Hardware:**

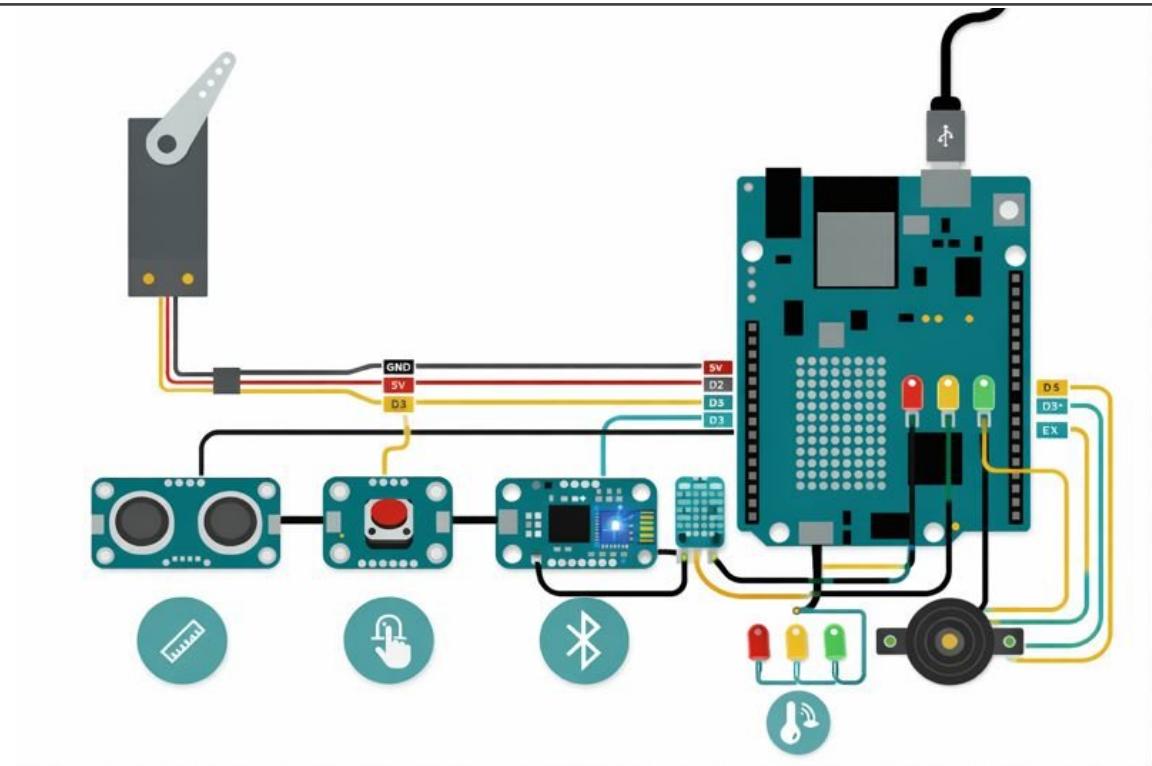
- Food container / hopper
- Motor to dispense food
- Sensors to detect food levels
- Buttons for manual control

➤ **Software / App:**

- Mobile app for scheduling and control
- Notifications for low food

➤ **Connectivity:**

- Wi-Fi / Bluetooth for remote control



# How It Works

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- Motor dispenses food automatically if animal detected
  - The load cell weighs 15 grams. When the amount is detected the lid closes.
  - To prevent the device from being tipped over once the food is released no matter how many times the animal is sensed for one hour feeding is not possible
  - The green LED means that feeding is taking place, and the red LED when it is in standby.
  - The display shows the status of the device, i.e. feeding or standby, and also shows the temperature and humidity in the room.
- Control methods:**
- From **phone** app
  - From **physical button** on device
  - From **sensor triggers** (e.g., pet detected near feeder)





# Functionalities & Advantages

## ➤ Functionalities

- Manual feeding with a button
- Sensor-based feeding (pet presence triggers portion)
- Remote control via phone

## ➤ Advantages

- **For owners:** Convenience, time-saving, peace of mind
- **For pets:** Regular meals, healthier diet
- Easy to clean and maintain



# Conclusion

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- Smart Pet Feeder is a practical and innovative solution for busy pet owners
- Combines automatic feeding, sensors, and mobile control
- Future improvements: video monitoring, treat dispensing, more smart features



# THANK YOU!

