Auto Pet Feeder
Team 7

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EE-595
Auto Pet Feeder

• Purpose of Product: An automated meal dispenser to provide nourishment for your pets while away from home.

• Feature1: Programmable

• Feature2: Self Cleaning

• Feature3: Monitors food levels

• Market: North America
EE-595

Key Requirements

• Cost
  – $99.99 (Sales Cost) Component Cost $50.00, Assembly & Test Costs: $30.00

• Environment: Indoors, Stationary
  – Operating Temperature (0 C to 50 C or 32 F to 122 F)
  – Operating Humidity Range (30 to 60 %)

• Power Inputs
  – Residential AC Power (120 V @ 60 Hz @ Max 20 Amps)

• Major Functions
  – Dispense Food Amount Determined By User @ 5% accuracy by weight
  – Dispense Water Amount Determined By User @ 5% accuracy by weight
  – Automatic Food Disposal After Eating Period (food is removed)
  – Program (Inputs are 5% accurate)
Block Ownership

A. Power Supply: Jing Chen
B. Feed Circuit: Xinye Xu
C. Food Removal Cleaning System: Ruishuang Zhong
D. Sensor system: Jingduo Fan
E. User Interface system: Jacob
F. Microcontroller: Tim