**Application Architecture v4.0**

Presentation Layer

Business Layer

Data Access Layer

Persistence Layer

Primary Application Components

Windows OS Node

Microcontroller Node

Component to be implemented

Off-the-shelf Component

**Legend**

State Values

Address

Egg Counts

BS2 Microcontroller

Configuration Settings

Configuration Settings

Configuration Settings

Windows OS

Config Writer

Config Reader

Log Writer

Log Reader

Primary Application

**Data Access Layer**

**Persistence Layer**

Communication Software

Counting Software

Config Writer

Config Reader

Log Writer

Log Reader

Primary Application

Bridge to Communication Driver

Hardware Polling Process

State Logic Process

BS2 Microcontroller

UART

RS-485 to RS-232 Convertor

RS-485 Standard

USB Standard

Serial Communication Driver

GUI Build/Update

Windows OS

**Business Layer**

GUI

Configuration Interface

Statistics Screen

Status Screen

Log View

Audio Alert

Touch Screen

**Presentation Layer**