Functional Reguirements:

1. Presentation Layer

1.1 Display current state of conveyors

1.2 Alert when state is inappropriate

1.3 User interface adjustable parameters for sensitivity settings, etc.

1.4 Operate on Windows platform

1.5 Integrate touch screen capabilities

2. Communication Layer

2.1 Set up software on components for communication

2.2 Integrate serial communication into Application

3. Business Layer

3.1 GUI driver for presentation layer

` 3.2 Communicate between persistence layer and presentation layer for settings, state, etc.

3.3 Bridge between high level software and low level communication software

3.4 Main driving software application

4. Persistence Layer

4.1 Log files for debugging

4.2 Settings files

5. Hardware Layer

5.1 Install hardware counters

5.2 Install communication lines

5.3 Install communication controllers

5.4 Integrate into already built workstation