**2012 CRIO Robot:**

**As of 02/15/12**

**Analog Module 1 (slot 1):**

1. Pressure transducer
2. unused
3. unused
4. unused
5. unused
6. unused
7. unused
8. Battery

**Digital Input/Output 1 (slot 2):**

1. Pressure switch
2. Lead screw upper limit
3. Lead screw lower limit
4. Lead screw middle position
5. Encoder A channel
6. Encoder B channel
7. Encoder A channel
8. Encoder B channel
9. unused
10. unused
11. unused
12. unused
13. unused
14. unused

**Relay Outputs 1**:

1. Compressor
2. Catapult lead screw (window)
3. unused
4. unused
5. unused
6. unused
7. unused
8. unused

**PWM 1:**

1. Left Rear CIM motor
2. Left Front CIM motor
3. Right Rear CIM motor
4. Right Front CIM motor
5. Conveyor (Fisher-Price)
6. Ball collector (Fisher-Price)
7. Pressure Regulation (window)
8. Ball gate (servo)
9. unused
10. unused

**Solenoid Output Module 1 (slot 3)**

1. Catapult (single)
2. Shifter (double)
3. Shifter
4. Shark (double)
5. Shark
6. unused
7. unused
8. unused

Operator Interface:

1. Joystick USB 1 – Driver
   1. Left tank drive
   2. Low gear
   3. Ramp shark
2. Joystick USB 2 – Driver
   1. Right tank drive
   2. High gear
   3. Ramp shark
3. Joystick USB 3 – Operator
   1. Y axis – adjust launch pressure
   2. Button 1,2,3 – lead screw set positions
   3. Button 4 = load ball into catapult
   4. Trigger = catapult
4. Custom Controls USB 4
   1. Swap front/back toggle
5. Dashboard
   1. Camera image
   2. Pressure gauge
   3. High/Low gear
   4. Conveyor running?
   5. Ball gatherer running?
   6. Tabs
      1. Kinect skeleton
      2. Speedometer/max speed reached
      3. Feedback
         1. Gyro reading
         2. Encoder readings
         3. Pressure reading