**2011 CRIO Robot:**

**As of 02/23/11**

**Analog Module slot 1:**

1. Elevator pot
2. unused
3. unused
4. unused
5. unused
6. unused
7. unused
8. Battery

**Analog Module slot 2: (unused)**

1. unused
2. unused
3. unused
4. unused
5. unused
6. unused
7. unused
8. unused

**Digital Input/Output slot 4:**

1. Gripper Limit Switch
2. Arm Up Limit Switch
3. Arm Down Limit Switch
4. Car Up Limit Switch
5. Car Down Limit Switch
6. Elevator Up Limit Switch
7. Unused (Brake home?)
8. unused
9. Encoder A channel
10. Encoder B channel
11. Autonomous
12. Autonomous
13. Autonomous
14. Autonomous

**Relay Outputs slot 4**:

1. Gripper spike
2. Brake spike
3. unused
4. unused
5. unused
6. unused
7. unused
8. unused

**PWM slot 4:**

1. Left Rear CIM motor
2. Left Front CIM motor
3. Right Rear CIM motor
4. Right Front CIM motor
5. Elevator Fisher-Price
6. Arm Banebot
7. Unused
8. Unused
9. Unused
10. Minibot Door Servo

**Solenoid Output Module slot 7 & 8 (unused)**

1. unused
2. unused
3. unused
4. unused
5. unused
6. unused
7. unused
8. unused

**Robot user switches:**

1. Auto mode (0-7)

Operator Interface:

1. Joystick USB 1 – tank drive
2. Joystick USB 2 – tank drive
3. Joystick USB 3 –
   1. Y axis = Elevator override
   2. Button 1 = grab
   3. Button 2 = release
4. Custom Controls USB 4
   1. Button 11 = Pole – Center(off)/side(on)
   2. Elevator Level (x-axis) –
      1. Floor (.89 to .99)
      2. Low (.25 to .33)
      3. Center (-.33 to -.38)
      4. High (<-0.9)
   3. Button 12 = Elevator Manual (on) / Auto(off)
   4. Button 1 = Deploy Minibot(off)
   5. Button 2 = Drop Tube momentary(on)
   6. Button 3 = Arm toggle(up=on)