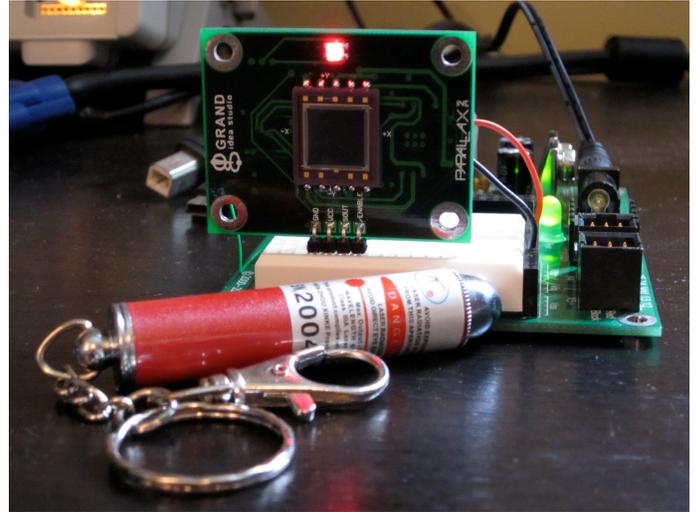**Initial Setup:**

1. Connect Board-of-Education to PC

2. Plug Laser Position Sensor (LPS) module into Board-of-Education (BoE)

3. Connect VCC (LPS) to VDD (BoE)

4. Connect GND (LPS) to VSS (BoE)

5. Connect /ENABLE (LPS) to P0 (BoE)

6. Connect SOUT (LPS) to P1 (BoE)

Test Procedure:

1. Enable power to Board-of-Education

2. LPS LED = ORANGE (RED and GREEN) for ~4 seconds during calibration

3. TP11 = negative 5V +/- 0.25V

4. Load and run *LPS_Test.bs2*

5. LPS LED = Pulsing RED (indicating module is actively scanning for laser light)

6. Shine and hold laser pointer at sensor

7. BASIC Stamp Debug Terminal should display X/Y coordinates of laser dot from center of sensor. Maximum value is +/- 0.1968". Ex.:
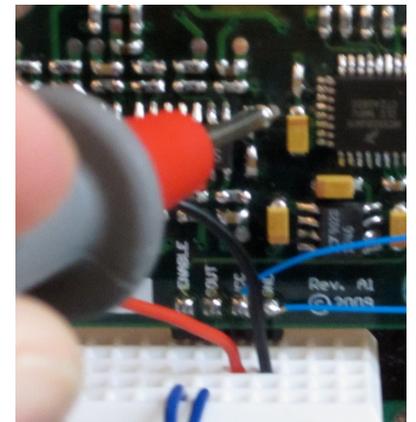
   ```
   Shine Laser at Sensor...Pass! (X: -0.0257"   Y: +0.0218")
   ```


8. Remove laser pointer from sensor

9. BASIC Stamp Debug Terminal should display:

   ```
   Remove Laser...Pass!
   ```

10. LPS LED = GREEN

11. Test complete.