



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Parker A. Williams	Project Number J1419
Project Title Homemade Electronic Whiteboard	
Abstract Objectives/Goals My goal was to determine if larger monitors would provide higher accuracy when used with an electronic whiteboard program. Methods/Materials Using an infrared camera connected to my computer wirelessly via BlueTooth, I used a homemade infrared light pen as a mouse pointer. This was tracked by the infrared camera and data was collected by a software program. I tried several different monitors of various sizes to see which one was most accurate. Results A larger computer monitor provided better accuracy. Conclusions/Discussion My conclusion supported my hypothesis. Electronic whiteboards benefit from larger monitors.	
Summary Statement Accuracy of an electronic whiteboard made from a homemade infrared light pen, a Nintendo Wii remote, and a BlueTooth dongle on a PC.	
Help Received Dad purchased BlueTooth dongle and infrared LEDs and supervised soldering of infrared light pen.	