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Touch Screen Smart Mirror - Project Status Report

**Planned Work:**

* Work on alignment of LEDs for better position
* Work on speeding up mouse movement (remove delays and “Serial” monitor calls)
* Get a way to see IR light in transmitter (currently working blind, makes debugging hard but not impossible)
* Update Documentation

**Work Results:**

* Worked out bugs in code
* Implemented 1-3-1 Weighted Mean Smoothing for mouse movement. (It was initially a bit choppy)
* Verified hardware design to work as expected with the code
* Declared design ready for review

**Future Activities:**

**Short Term:**

* **Update documentation for Design Review**

**Long Term:**

* Update schematic and PCB layout to reflect changes made while constructing Demo circuit
* Schematic and layout review with peers/instructors
* Order boards and BOM items
* Construct LED alignment and bending jig – crucial for successful assembly
* Disassemble 32” TV to be used for mirror to determine what is needed for frame
* Order 2-way acrylic sheet
* Refine algorithm for better resolution (not sure how to process data correctly, maybe some sort of convolution)
* Possible implementation of b-spline algorithm for better mouse movement (low priority – might not be necessary for application)