

# ECE 492 Weekly Report MAY 1607 Week 5 (2/08/2016-2/15/2016)

**Advisor:** Jaeyoun Kim

**Client:** Honeywell, FM&T

**Members (roles):** Gregory Kuhn (Weekly Report), Noah Bergman (Team Leader) Michael Kelly (Key Concept Holder), Garret Hembry (Webmaster)

**Project Title:** Microscope Embedded Display for Assembly Work Instructions

## Weekly Summary:

2/11/16/Group Meeting in TLA

**Duration:** 180 min **Members Present:** All

### Purpose and Goals:

A long last we have finally taken care of the non-technical engineering concerns namely design the mechanism to hold the lenses in place and are finally ready to build the mini-projector circuit itself. The circuit consists of four main parts we are to design: an HDMI port, microcontroller, 3414 DLPC3435 display driver, and the display itself. This week our objective is to begin to build the circuit using multi-software.

**Achievements:** 1) We managed to begin working on building the circuit using the aforementioned software. The goal was to accurately design the circuit so that it could eventually be built in the machine shop. We were able to accurately construct the DMD 3010 circuit and take into account all 60 of its pins as well as its input and outputs.

## Pending issues

- 1) Continue building the circuit with Multi-Sim software.
- 2) Place the two mirror lenses (we ordered) at the correct distance so that the instructions can be viewed optimally in the eyepiece of the microscope.

## Plans for next week

We will continue to build the circuit using multi-sim software although we will spend more of an emphasis building the individual components starting with the HDMI port. Furthermore, we will attempt to install the lenses in their correct place at the correct distances inside the microscope lenses.

## Individual Contributions (this week)

Gregory Kuhn-Helped to build the circuit on the computer using multi-sim software.

Noah Bergman Helped to build the circuit on the computer using multi-sim software.

Garret Hembry Helped to build the circuit on the computer using multi-sim software.

Matthew Kelly - Helped to build the circuit on the computer using multi-sim software.

## Total contributions for the project

Noah Bergman-44hrs

Gregory Kuhn—44hrs

Matthew Kelly—44hrs

Garret Hembry-44hrs