

# ECE 492 Weekly Report MAY 1607 Week 7 (2/23/2016-3/01/2016)

**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:

The objective of this week's meeting was twofold. First we would like to continue to build the min-projector circuit using model sim circuit software. Secondly we would like to design a new bracket to attach to the optical engine to support the PCB.

### 2/25/16/Group Meeting in TLA

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

#### Purpose and Goals:

There were two objectives of this weekly meeting. We would like to design the DLPC3438 using model-sim software, and secondly we would like to design a new bracket to attach to the optical engine to support the PCB.

#### Achievements:

- 1) We managed to design the DLPC3438 using the correct software. It had the necessary 24 bit parallel input and output ports and was able to interact with the optical engine and the main board as well.
- 2) We designed a mini-bracket to support the PCB. This was done by devising a rectangular object large enough for the PCB to fit inside the bracket and then had two holes to attach it to the optical engine.

## Pending issues

- 1) Continue building the circuit with Multi-Sim software.
- 2) Begin to use EVM software to alter the properties of the optical engine.
- 3) Fabricate the bracket we used to attach the optical engine to the PCB.

## 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 use the EVM software to alter the properties of the min-projector circuit.

## Individual Contributions (this week)

Gregory Kuhn-Helped to build the circuit on the computer using multi-sim software. Used AUDCAD software to design a bracket to attach the optical engine to the PCB.

Noah Helped to build the circuit on the computer using multi-sim software. Used AUDCAD software to design a bracket to attach the optical engine to the PCB.

Garret Hembry- Helped to build the circuit on the computer using multi-sim software. Used AUDCAD software to design a bracket to attach the optical engine to the PCB. Matthew Kelly- Helped to build the circuit on the computer using multi-sim software. Used AUDCAD software to design a bracket to attach the optical engine to the PCB.

### **Total contributions for the project**

Noah Bergman-54hrs

Gregory Kuhn-54hrs

Matthew Kelly-54hrs

Garret Hembry-54hrs