

ECE 492 Weekly Report MAY 1607 Week 10

(3/28/2016-4/04/2016)

Advisor: Jaeyoun Kim

Client: Honeywell, FM&T

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

Project Title: Microscope Embedded Display for Assembly Work Instructions

Weekly Summary:

This week we were busy preparing for our penultimate presentation and therefore didn't do much "engineering". However, we successfully gave a thorough and informative presentation. Furthermore this process helped us to analyze and improve the organization of our design..

3/31/16/Group Meeting in TLA

Duration: 240 min **Members Present:** All

Purpose and Goals:

Our main objective this week was to prepare for and deliver our senior design presentation to our academic advisor. Furthermore we also hoped to fabricate both the lense and the optical engine we had designed using AUTOCAD software.

Achievements:

- 1) We spent several hours preparing for our presentation and were able to successfully deliver an excellent presentation that earned praise from our advisor. This presentation was great because it gave us an opportunity to correct some flaws in our presentation. For example we were advised to focus more on our previous semester work for our next presentation. Furthermore by going back and viewing the chronology of our project we were able to observe if there was something vital that we had forgotten to include; and after examining our project we found no such error.
- 2) We managed to fabricate the devices that were used to hold the both and lense and optical engine. We were able to attach them to the microscope and included this in our presentation.

Pending issues

- 1) Install the manufactured main board so that it could integrate with our DLP.
- 2) Continue to further integrate the micro-projector circuit with EVM software.

Plans for next week

Next week we would like to begin to seriously integrate the microcontroller with the EVM 3010 I²C software. The I²C is the multi-input bus that is used for integrating between the microcontroller and computer. The purpose of fully integrating this is that now we can adjust certain properties of the micro projector circuit using the computer. Furthermore we would like to begin to have a successful printout of our

Individual Contributions (this week)

Gregory Kuhn-Worked on the project presentation, assisted in preparing the setup of the microscope.

Noah Bergman-Worked on the project presentation, assisted in preparing the setup of the microscope.

Garrett Hembry -Worked on the project presentation,
assisted in preparing the setup of the microscope.

Matthew Kelly- Worked on the project presentation,
assisted in preparing the setup of the microscope.

Total contributions for the project

Noah Bergman-68hrs

Gregory Kuhn-68hrs

Matthew Kelly-68hrs

Garret Hembry-68hrs