

ECE 491 Weekly Report MAY1607 Week 5 (9/20/2015-9/27/2015)

Advisor: Jaeyoun Kim

Client: Honeywell, FM&T

Members (roles): Gregory Kuhn (Weekly Report), Noah Bergman (Team Leader)

Matthew Kelly (Key Concept Holder), Garrett Hembry (Webmaster)

Project Title: Microscope Embedded Display for Assembly Work Instructions

Weekly Summary

There were two main intentions of the meetings this week. The first was to gain a detailed understanding of how to properly display the instructions from the computer to appear in the eyepiece lenses. The second was to research and identify the parts necessary to implement this and to fill out on an order request form.

Meeting notes:

-This weekly meeting was really a compilation of two meetings. Our first meeting took place with Dr.Jaeyoun Kim where we discussed methods for implementing a strategy to display the instructions in the eyepiece.

- The second meeting took place in the TLA where we looked the parts (electron microscope, beam splitter, eyepiece) necessary to begin to build it.

9/25/15 Group Meeting With Dr. Kim

Duration: 60 min.

Members Present: All

Purpose and Goals:

The purpose of this meeting was to discuss methods with our Academic advisor Jaeyoun Kim on how to successfully display the instructions from the computer in the microscopes eyepiece lenses.

Achievements:

Overall this was a very productive meeting were we successfully thought out a good strategy on how to display the instructions in the eyepiece lenses. First off we would use a beam splitter to successfully direct the image, and then we would purchase additional microscope lenses in order to display the image. These lenses would magnify the instructions so they could appear visible in the microscope.

9/25/15 Group Meeting In TLA

Duration: 30 min.

Members Present: All

Purpose and Goals:

The purpose of this meeting was to search for the parts we needed via the internet, and then to send in an order request form to our project supervisor Bob Hearst.

Achievements:

We were successful in identify all the parts necessary. They are as follows: Pocket Projector, Paired Eyepieces, pole stand, stereo eye shields, and a microscope itself.

Pending issues

1. Purchase the exact model microscope and beam splitter we are to use for this project.
2. Research the schematic and the specific components required to build a heads up display.

Plans for next week

We will be meeting on Monday of next week to continue to research, identify, and then hopefully purchase the individual components required to successfully make a heads up display of our own. Furthermore we hope that our order request form will be successfully processed so that we can then order the necessary part and begin to experiment with the microscope and view firsthand how the instructions will be displayed in the microscope.

Individual Contributions (this week)

Gregory Kuhn-Continued Researching the technical aspects of the project and researched parts required to build heads up display.

Noah Bergman – Continued researching the technical aspects of the project and researched parts required to build heads up display.

Matthew Kelly – Continued researching the technical aspects of the project and researched parts required to build heads up display.

Garrett Hembry- Continued researching the technical aspects of the project and researched parts required to build heads up display.

Total contributions for the project

Noah Bergman-10hrs

Gregory Kuhn–10hrs

Matthew Kelly–10hrs

Garrett Hembry-10hrs