ECE 492 Weekly Report **MAY1607 Week 2 (1/15/2015-1/22/2016)**

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:

This week was our first group meeting of the semester and in addition to the design itself we also focused on setting up a new meeting schedule and other necessities. The main design component of this meeting involved our decision to implement the micro-projector directly inside the eyepiece lenses, as opposed to attaching it to the microscope as we have previously.

1/21/15 Group Meeting in TLA

Duration: 120 min **Members Present:** All

Purpose and Goals:

There were multiple objectives of this meetings that could be divided into two categories , the first was deciding on the teams schedule for the remainer of the semester. The second will be the discussion of the actual design process itself.

Achievements: 1) We decided to schedule our group meetings everything thursday at five p.m in the TLA and would alternate meeting Dr.Kim and Mr.Dearst each friday at 3:00pm.

2) In order to successfully mount the mirror we needed two new products, an adjustable mirror mounting bracket, which would be used to hold the lenses that are magnifying the image, and an adjustable lense mount used to hold the bracket. We then attempted but were not able to find the correct distance at which to place the two distances as to provide an optimal image to be displayed.

Pending issues

1) Purchase the necessary equipment needed to hold the lenses at the correct distances.
2) Begin to build the circuit with multi-sim.
3) Determine the correct distances to place the two mirrors in order to display an optimal image.

Plans for next week

For next week our plan is to fill out the correct authorization forms needed to successfully purchase the requisite materials needed to hold the two lenses. In addition we are to correctly find the correct distances the two lenses need to be placed at to give a proper image in the microscope eyepiece.

Individual Contributions (this week)

Gregory Kuhn- Researched the properties of lenses to display the image in the microscope.

Noah Bergman – Researched the properties of lenses to display the image in the microscope.

Garret Hembry- Researched the properties of lenses to display the image in the microscope.

Matthew Kelly- Researched the properties of lenses to display the image in the microscope.

Total contributions for the project

Noah Bergman-32hrs
Gregory Kuhn–32hrs
Matthew Kelly–32hrs
Garret Hembry-32hrs