

ECE 491 Weekly Report MAY1607 Week 9 (10/18/2015-10/25/2015)

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 our meeting was really a compilation two meetings: one with our group in the TLA, and one with our project supervisor in Bob Dearth in Kansas City. These two meetings will be discussed in greater detail below.

10/22/15 Group Meeting with Project Supervisor

Duration: 30 min **Members Present:** All

Purpose and Goals:

The purpose of this meeting was to purchase the necessary component's to build the actual heads-up display circuit. Although we have yet to fill out the order request form it is still important to be able to show to our project supervisor.

Achievements: We were successful in that we managed to fill out a request form of the parts that seem to be acceptable for use. They were the HDMI RX(receives HMI input),

10/23/15 Group Meeting Project Supervisor

Duration: 150.

Members Present: All

Purpose and Goals:

The purpose of this meeting was to finally meet our Project supervisor Bob Dearst at his research facility in Kansas City, Missouri. The reason this was so significant was that we could witness firsthand how the microscopes were

Achievements: This was an extremely successful trip. We managed to witness firsthand were the engineers would work with the microscopes and how the. Mr. Dearst also informed us that tablets were

Pending issues

1. Acquire a pocket projector so that we can test out how the instructions would appear in an actual microscope lens.
2. Build a mechanism for displaying the instructions in the microscope lenses.

Plans for next week

Our main objective next week is to meet with Jaeyoun Kim and ask him what Projector we should purchase so that we can finally begin to examine how the instructions from the computer will appear in the microscope lenses. We also plan on modeling the circuit via ModelSim software.

Individual Contributions (this week)

Gregory Kuhn- Researched parts required to build the projector circuit, met with Bob Dearst and researched firsthand methods to implement a method for displaying instructions in the eyepiece of the microscope.

Noah Bergman – Researched parts required to build the projector circuit, met with Bob Dearst and researched firsthand methods to implement a method for displaying instructions in the eyepiece of the microscope.

Michael Kelly Researched parts required to build the projector circuit, met with Bob Dearst and researched firsthand methods to implement a method for displaying instructions in the eyepiece of the microscope.

Garrett Hembry- Researched parts required to build the projector circuit, met with Bob Dearst and researched firsthand methods to implement a method for displaying instructions in the eyepiece of the microscope.

Total contributions for the project

Noah Bergman-20hrs

Gregory Kuhn-20hrs

Matthew Kelly-20hrs

Garrett Hembry-20hrs