

EE/SE/CPRE 491 Weekly Report
MAY1631
Week 3 Report

Advisor: Leland Harker

Client: ISU Electrical & Computer Engineering

Project Title: Automated Tool Monitoring System

Group Member:

Team Leader	Edward Droesch
Team Webmaster	Wan Zulsarhan Wan Shaari
Team Communication Leader	Ibtisam Osthman
Team Key Concept Holder	Mohamad Asyraf Samsudin

Meeting Attendance (September 10th, 2015):

Mr. Harker, Wan and Mohamad

Weekly Summary:

The main goal of this week is to discuss in-depth regarding any issues related to the initial design

Meeting Minutes:

- Issues discussed with Mr Harker are:
 - How to detect which tools are taken out -- using image analysis and comparing program.
 - How to detect if the drawer is closed / allow only one drawer open at a time -- using **KeyDuino** and sensor
- Generated project [timeline](#)

Weekly Accomplishment:

- Had meeting with Mr Harker
- Implemented and tested simple card reader program on Raspberry Pi
- Implemented and tested simple **GPIO** program on Raspberry Pi and integrated it with the card reader program.
- Finished on the [early design](#) of the system.

- Found an [alternative for image analysis and processing](#) using javascript which can be run on Raspberry Pi or another server.

Plan for Coming Week

- Continue to work on getting the mySQL database connected. (Contact ETG)
- Work on writing a simple servo program
- Work on writing a simple program to talk to mySQL database.
- Analyze how the [image analysis and processing](#) web application works and see if we can use it in our system.

Pending Issues:

- Schedule time for safety training to have access to the room co1316
- There is no NI Vision software installed in Senior Design Lab
- Could not connect to mySQL database provided by ETG from Raspberry Pi yet

Individual Contributions:

- **Edward**
 - Research on image analysis and processing server
- **Wan**
 - Wrote a simple GPIO program
 - Wrote a simple card reader program
 - Try to connect to mySQL database
- **Ibtisam**
 - Research on servo and sensor
- **Mohamad**
 - Helped in testing GPIO and card reader program
 - Research on servo and sensor

Individual Hourly Contributions:

Team Member	Weekly Hour	Cumulative Hour
Edward Droesch	1	3
Wan Zulsarhan Wan Shaari	3	5
Ibtisam Osthram	1	3
Mohamad Asyraf Samsudin	3	5

