

EE/SE/CPRE 491 Weekly Report
MAY 1631 - Spring 2016
Week 3 Report

Advisor

Leland Harker

Client

ISU Electrical & Computer Engineering

Project Title

Automated Tool Monitoring System

Group Member

Team Leader	Edward Droesch (CprE)
Team Webmaster	Wan Zulsarhan Wan Shaari (SE)
Team Communication Leader	Ibtisam Osthman (EE)
Team Key Concept Holder	Mohamad Asyraf Samsudin (EE)
Team Key Concept Holder	Deeksha Juneja (CprE)

Meeting Attendance (January 29th, 2016)

Edward, Wan, and Ibtisam

Weekly Summary

The main goal of this week is to continue working on image processing analysis

Meeting Minutes

- Discussed on the issues with the NI Vision Assistant:
 - Can it detect accurately for a longer distance image and how to solve
 - We came out with a solution to add several different template images to improve the accuracy of analysis
 - Where we want to install the camera
 - Are we going to continue a circle shape for shape detection function in Vision and what if it detects tools with the circle shape as well?

Weekly Accomplishment

- Discussed about MySQL database with Mr Lee Harker
- Added a new functionality in the Web Application

Plan for Coming Week

- Capture images with real distances to be tested in Vision software
- Continue testing the image and playing around with it
- Need to start deploy the image into the LabView

Pending Issues

- Still have not decided on the design of the lock mechanism

Individual Contributions

- **Edward**
 - Installed MyRio Vision software
 - Discussed on the issue of different distances from camera to drawer

- **Wan**
 - Discussed the MySQL database issues with Mr Harker
 - Continue developing on the web application
 - Add new functionality
 - Create new users
- **Ibtisam**
 - Discussed the issue with the Vision
 - Tested images in Vision
- **Mohamad**
 - Work on independent circuit design for the drawer
- **Deeksha**
 - Met Jason at ETG to understand LabView Installation
 - Discussed further Database issues with Wan
 - Completed the lab training with Mr. Harker

Individual Hourly Contributions

Team Member	Weekly Hour	Cumulative Hour
Edward Droesch	5	34
Wan Zulsarhan Wan Shaari	5	48
Ibtisam Ostham	5	45
Mohamad Asyraf Samsudin	4	44
Deeksha Juneja	5	11