**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**

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

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**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**

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| --- | --- | --- |
| **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 |