

EE/SE/CPRE 491 Weekly Report

MAY 1631

Week 9 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)

Meeting Attendance (November 1st, 2015)

Edward, Wan, Ibtisam and Mohamad

Weekly Summary

The main goal of this week is to reflect on what we have done so far

Meeting Minutes

- **Main Agenda** : Present Ideas to do the tools detection functionality in our system
 - Plan A: Use Image Processing and Analysis in Raspberry Pi
 - Plan B: Use Vision software for myRIO
 - Plan C: Create an independent circuit for each of the drawers
- Prepare for the next meeting with Mr Harker.

Weekly Accomplishment

- Integrate some parts of the system with a main program

Plan for Coming Week

- Prepare to have a provable concept before Thanksgiving break
- Wrote a program for the Main Control Unit of the system
- Research on the feasibility for each of the plan in the meeting

Pending Issues

- Making sure that the image processing and analysis server is reliable for this project.
- Still have not decided on the design of the lock mechanism

Individual Contributions

- **Edward**
 - Research on the feasibility of the Plan A for tools detection functionality
- **Wan**
 - Integrate different components of the system into one program
 - Create a first prototype of Admin Web Application
 - <https://github.com/wzs21/ToolBox>
- **Ibtisam**
 - Learn python
 - Research on alternative plan for tools detection
- **Mohamad**
 - Come out with an idea for tools detection using independent circuit for each drawer

Individual Hourly Contributions

Team Member	Weekly Hour	Cumulative Hour
Edward Droesch	2	13
Wan Zulsarhan Wan Shaari	3	22
Ibtisam Osthram	2	19
Mohamad Asyraf Samsudin	2	20